Incident Number: nAB1911927632, nAPP2312445915



Release Assessment and Closure

Cotton Draw Unit 1-12 CTB

Section 12, Township 25 South, Range 31 East

API: 30-015-43275

County: Eddy

Vertex File Number: 23E-02423

Prepared for:

Devon Energy Production Company, LP

Prepared by:

Vertex Resource Services Inc.

Date:

November 2024

Release Assessment and Closure November 2024

Release Assessment and Closure

Cotton Draw Unit 1-12 CTB

Section 12, Township 25 South, Range 31 East

API: 30-015-43275 County: Eddy

Prepared for:

Devon Energy Production Company, LP

6488 Seven Rivers Highway Artesia, New Mexico 88210

New Mexico Oil Conservation Division

508 West Texas Avenue Artesia, New Mexico 88210

Prepared by:

Vertex Resource Services Inc.

3101 Boyd Drive

Carlsbad, New Mexico 88220

11/19/2024

Riley Plogger

ENVIRONMENTAL TECHNICIAN, REPORTING

Date

Chad Hensley, B.Sc. GCNR

SENIOR PROJECT MANAGER, REPORT REVIEW

11/19/2024

Date

Release Assessment and Closure November 2024

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Devon Energy Production Company, LP

Cotton Draw Unit 1-12 CTB

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Release Assessment and Closure November 2024

1.0 Introduction

Devon Energy Production Company, LP (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for two separate produced water and crude oil releases that occurred on September 4, 2018, and September 29, 2019, Cotton Draw Unit 1-12 CTB API 30-015-43275 (hereafter referred to as the "site"). Devon submitted an initial C-141 Release Notifications to New Mexico Oil Conservation Division (NMOCD) District 2 on April 4, 2019, and September 29, 2019. Incident ID numbers nAB1911927632 (RP# 2RP-5367) and nAPP2312445915, were assigned to the respective incidents.

This report provides a description of the release assessment and remediation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for closure of this release, with the understanding that restoration of the release site will be completed following remediation activities as per NMAC 19.15.29.13.

2.0 Incident Description

2.1 nAB1911927632, 2RP-5367

The release occurred on September 4, 2018, due to the 2-inch water dump washed out on one of the three phase separators. The incident was reported on April 4, 2019, and involved the release of approximately 6 barrels (bbl.) of crude oil and 1 bbl. of produced water on the pad site. Approximately 0 bbl. of crude oil and produced water was recovered during initial clean-up. Additional details relevant to the release are presented in the C 141 Report.

2.2 nAPP2312445915

The release occurred on September 29, 2019, when lightning struck the production tanks and caused a fire. The incident was reported on September 29, 2019, and involved the release of approximately 1,138 bbl. of produced water and 201 bbl. of oil on the pad site. Approximately 840 bbl. of free fluid was removed during the initial clean-up. Additional details relevant to the release are presented in the C-141 Report.

3.0 Site Characteristics

The site is located approximately 49 miles southeast of Carlsbad, New Mexico. The legal location for the site is Section 12, Township 25 South and Range 31 East in Eddy County, New Mexico. The release area is located on Bureau of Land Management property. An aerial photograph and site schematic are presented on Figure 1.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production and storage. The following sections specifically describe the release area at the site or in proximity to the constructed pad (Figure 1).

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2024) indicates the site's surface geology primarily comprises Eolian and piedmont deposits (Holocene to middle Pleistocene). The soil at the site is characterized as Pajarito loamy fine sand (United States Department of Agriculture, Natural Resources Conservation Service, 2024). Additional soil characteristics include a drainage class of well drained to somewhat excessively drained

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with a runoff class of moderate to moderately rapid. The karst geology potential for the site is low (United States Department of the Interior, Bureau of Land Management, 2018).

The surrounding landscape is associated with fan piedmont and alluvial fans with elevations ranging between 2,800 to 5,000 feet. The climate is semiarid with average annual precipitation ranging between 8 and 13 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be grasses and shrubs. Black grama (*Bouteloua eriopoda*), dropseeds (*Sporobolus flexuosus*, *S. contractus*, *S. cryptandrus*), and bluestems (*Schizachyrium scoparium*) dominate the historical plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2024). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way and access road.

4.0 Closure Criteria Determination

The depth to groundwater was determined by drilling a borehole permitted by the New Mexico Office of the State Engineer (NMOSE) within a 0.5-mile radius of the site. The borehole was advanced to a depth of 55 feet. The borehole was left to recharge as per the requirements on the WR-07 Application for Permit to Drill a Well with No Water Rights, and an interface probe was utilized to determine whether groundwater was present at the conclusion of the 72-hour recharge period. No water was found to be present at that time. The borehole was plugged and abandoned according to the WR-08 permit, Well Plugging Plan of Operations, filed with NMOSE. Documentation related to the exploratory borehole is included in Appendix D. Closure criteria documentation is included in Appendix A.

There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream (National Wetlands Inventory) located approximately 5.28 miles west of the site (United States Fish and Wildlife Service, 2024).

At the site, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Devon Energy Production Company, LP

Release Assessment and Closure November 2024

Cotton Draw Unit 1-12 CTB

| | Closure Criteria Determination | | | | |
|----------|--|-----------|------------|--|--|
| | e: Cotton Draw Unit 1-12 CTB | V. C10F42 | V. 2557000 | | |
| - | rdinates: 32.143975,-103.732463 | X: 619542 | Y: 3557098 | | |
| ite Spec | ific Conditions | Value | Unit | | |
| | Depth to Groundwater (nearest reference) | >55 | feet | | |
| 1 | Distance between release and nearest DTGW | 1,594 | feet | | |
| | reference | 0.30 | miles | | |
| | Date of nearest DTGW reference measurement | Februa | ry 6, 2024 | | |
| 2 | Within 300 feet of any continuously flowing watercourse or any other significant watercourse | 27,893 | feet | | |
| | Within 200 feet of any lakebed, sinkhole or playa | | | | |
| 3 | lake (measured from the ordinary high-water mark) | 87,648 | feet | | |
| | Within 300 feet from an occupied residence, school, | | | | |
| 4 | hospital, institution or church | 36,205 | feet | | |
| | i) Within 500 feet of a spring or a private, domestic | | | | |
| | fresh water well used by less than five households | 2,839 | feet | | |
| 5 | for domestic or stock watering purposes, or | 2,633 | leet | | |
| J | | | | | |
| | ii) Within 1000 feet of any fresh water well or spring | - | feet | | |
| | Within incorporated municipal boundaries or | | | | |
| | within a defined municipal fresh water field | | | | |
| 6 | covered under a municipal ordinance adopted | No | (Y/N) | | |
| | pursuant to Section 3-27-3 NMSA 1978 as amended, | | | | |
| | unless the municipality specifically approves | | | | |
| 7 | Within 300 feet of a wetland | 9,552 | feet | | |
| | Within the area overlying a subsurface mine | No | (Y/N) | | |
| 8 | Distance between release and nearest registered | 00.400 | · · | | |
| | mine | 89,103 | feet | | |
| | | | Critical | | |
| | Within an unstable area (Karst Map) | Low | High | | |
| 9 | Within an unstable area (Karst Wap) | LOW | Medium | | |
| 9 | | | Low | | |
| | Distance between release and nearest unstable | 22,559 | feet | | |
| | area | 22,333 | 1000 | | |
| | Within a 100-year Floodplain | 500 | year | | |
| 10 | Distance between release and nearest FEMA Zone | 14,569 | feet | | |
| | A (100-year Floodplain) | 1-7,505 | 1000 | | |
| 11 | Soil Type | Pa | jarito | | |
| | + | | | | |
| 12 | Ecological Classification | loamy | fine sand | | |
| 13 | Geology | Qep | | | |
| | | | <50' | | |
| | NMAC 19.15.29.12 E (Table 1) Closure Criteria | 51-100' | 51-100' | | |
| | | | >100' | | |

Release Assessment and Closure November 2024

The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.

| Table 2. Closure Criteria for Soils Impacted | by a Release | |
|--|-------------------|--------------|
| Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS | Constituent | Limit |
| | Chloride | 10,000 mg/kg |
| | TPH (GRO+DRO+MRO) | 2,500 mg/kg |
| 51 feet - 100 feet | GRO+DRO | 1,000 mg/kg |
| | BTEX | 50 mg/kg |
| | Benzene | 10 mg/kg |

TDS - total dissolved solids

TPH - total petroleum hydrocarbons, GRO - gas range organics, DRO - diesel range organics, MRO - motor oil range organics

BTEX – benzene, toluene, ethylbenzene and xylenes

5.0 Remedial Actions Taken

Characterization of the two release areas was started February 3, 2020, and completed on June 26, 2023, which identified the area of the release specified in the initial C-141 Reports, estimated the approximate volume of the release and white lined the area required for the One Call request. The impacted area for Incident nAPP2312445915 was determined to be approximately 40,320 square feet in size. Samples BH20-01 through BH20-12 and BH23-13 through BH23-65 were established to characterize the release (Figure 1). The area of interest for incident nAB1911927632 was determined to be approximately 855 square feet in size. Samples BH23-66 through BH24-84 were established characterize the release (Figure 1). The Daily Field Reports (DFRs) associated with the site inspection are included in Appendix B. Characterization field screening and laboratory results are summarized in Table 3.

Remediation efforts began on June 28, 2024, and were finalized on July 16, 2024. Vertex personnel supervised the excavation of 3,301 square feet and 122 Cubic yards of impacted soil were removed. Field screening was conducted and consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and Quantabs (chlorides). Field screening results were used to identify areas requiring further remediation. Soil was removed to a depth of 1 foot below the ground surface. Impacted soil was transported by a licensed waste hauler and disposed of at LeaLand, an approved waste management facility. Field screening results and DFRs documenting various phases of the remediation are presented in Appendix B.

Notification that confirmatory samples were being collected was provided to the NMOCD on July 11, and October 28, 2024 for sampling on July 15, and October 30 2024. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 30 samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Eurofins in Albuquerque, New Mexico, under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 4, and the

Release Assessment and Closure November 2024

laboratory data reports are included in Appendix C. All confirmatory samples collected and analyzed were below closure criteria for the site.

5.1 Closure Denial

On September 17, 2024, NMOCD rejected the closure report for the following reasons:

"Numerous samples listed on Table 3. Initial Characterization Field Screen and Laboratory Results are not illustrated on Figure 1, Characterization Sampling Site Schematic. Lab Order 2002448 has samples included that are not located on Table 3 or Figure 1. The samples are prefixed by SS20. Additionally, not all of the 2023 sample points are included on the map. The last sample included on the map is BH23-65. BH23-66 through BH23-84 are not illustrated on the map. All samples must be included on the table and figure to illustrate locations of samples collected that are above the remediation closure standards and locations of samples collected that are above the reclamation standards that must be addressed when the site is no longer reasonably needed for production or subsequent drilling activities. Additional remediation and/or additional volumes/square footage that will require reclamation may be required when all sample locations are illustrated on the map. The estimated volumes and square footage for soils that will be reclaimed in the remediation plan section of the C-141 must reflect the amount of soil that is above the reclamation standards that must be addressed when the site is no longer reasonably needed for production or subsequent drilling activities. This number will be different than the volume and square footage for soils that was reclaimed located in the remediation closure request section of the C-141 as this section should reflect the amount of soil that meets the reclamation standards due to the remediation being completed. Clarify if BH20-12 is mislabeled on the map as a borehole (Prefixed by "BH23-") instead of a Historic Borehole (Prefixed by "BH20-"). A possible typo was found on table BH23-37. The table indicates that the sample was collected at 4' but the chain of custody indicates that the sample was collected at 3'. The correct depth will need to be included in the report. Soil contamination sampling section of the C-141 is incorrect. The values in this section must reflect the highest observable value for each, in milligrams per kilograms, for each constituent. These values can be either investigation/delineation samples or closure samples depending on which sample set has the highest observable value. BH23-05 6' and BH23-09 6' are not included on the table. Include clarification if these samples correspond to BH20-05 6' and BH20-09 6' on the table and if these samples were collected from the location of the historic boreholes illustrated on the map."

On October 21, 2024, NMOCD rejected the closure report for the following reasons:

"The Remediation Closure Report is Denied. The Remediation Closure Report includes an inadequate number of confirmation floor samples. Please collect confirmation samples, representing no more than 200 ft2, unless a variance is requested/approved. Collect 5-point confirmation samples every 200 ft2 throughout the entire release area and not just at delineation sample point locations that show contaminants over closure criteria standards."

5.2 Corrective Actions

- Updated Table: SS20-01 through SS20-10, which were previously not included, have now been included in Table 3.
- Updated Sample points in map: SS20-01 through SS20-10 and BH23-66 though BH23-84 have also been included in Figure 1.

Release Assessment and Closure November 2024

- Reclamation Volumes updated
- Updated Map: BH20-20 updated on Figure 1
- Table Typo: Sample Point BH23-37 at 4 feet was corrected to 3 feet as indicated on lab report Rpt 2305697
- Soil Contamination Sampling Values: Maximum Values updated on C-141
- Labels incorrect: BH23-05 at 6 feet and BH23-09 at 6 feet were taken from the historical boreholes BH20-05 and BH20-09 on June 22, 2023, and included as BH20-05 and BH20-09 in Table 3 but were mislabeled on the Chain of Custody forms that were sent to the lab as seen on Rpt 2306C86.
- Collected two additional samples: one additional base sample was collected as sample point CS24-21, one sidewall sample was collected, and labeled as CWS24-08. The sidewall should have been labeled as CWS24-09 an asterisk shall note the change on the map and table.

6.0 Closure Request

The release area was fully delineated, remediated, and backfilled with local soils by August 1, 2024. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release locations "50-100 feet to groundwater". Based on these findings, Devon Energy Production Company, LP requests that this release be closed.

Should you have any questions or concerns, please do not hesitate to contact Chad Hensley at 575.200.6167 or Chensley@vertexresource.com

7.0 References

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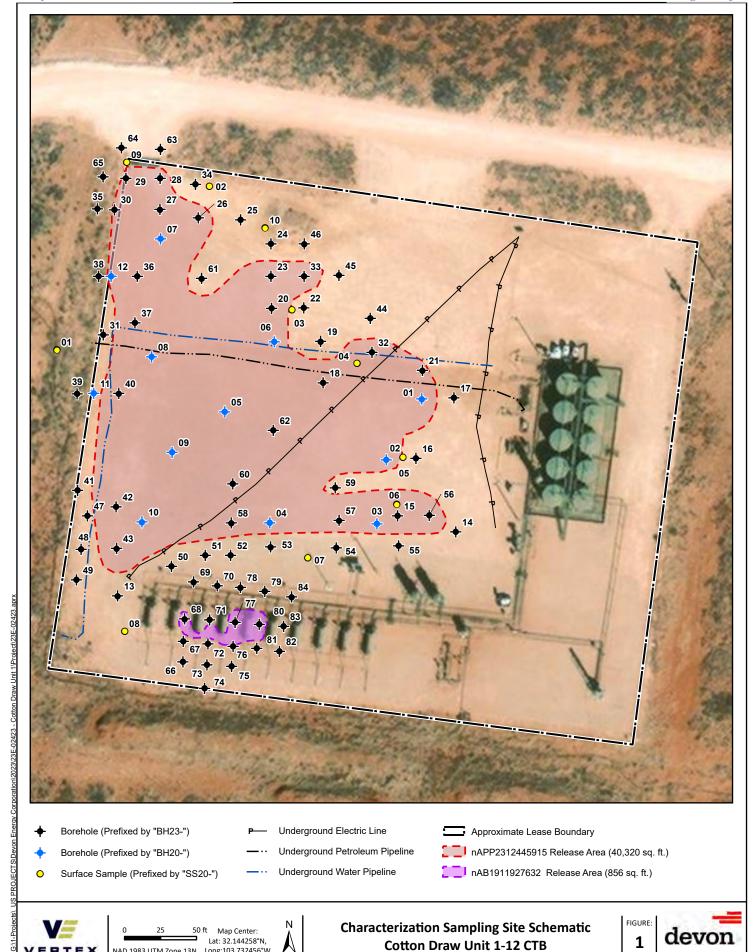
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8.0 Limitations

This report has been prepared for the sole benefit of Devon Energy Production Company, LP. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the Bureau of Land Management, without the express written consent of Vertex Resource Services Inc. (Vertex) and Devon Energy Production Company, LP. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

FIGURES



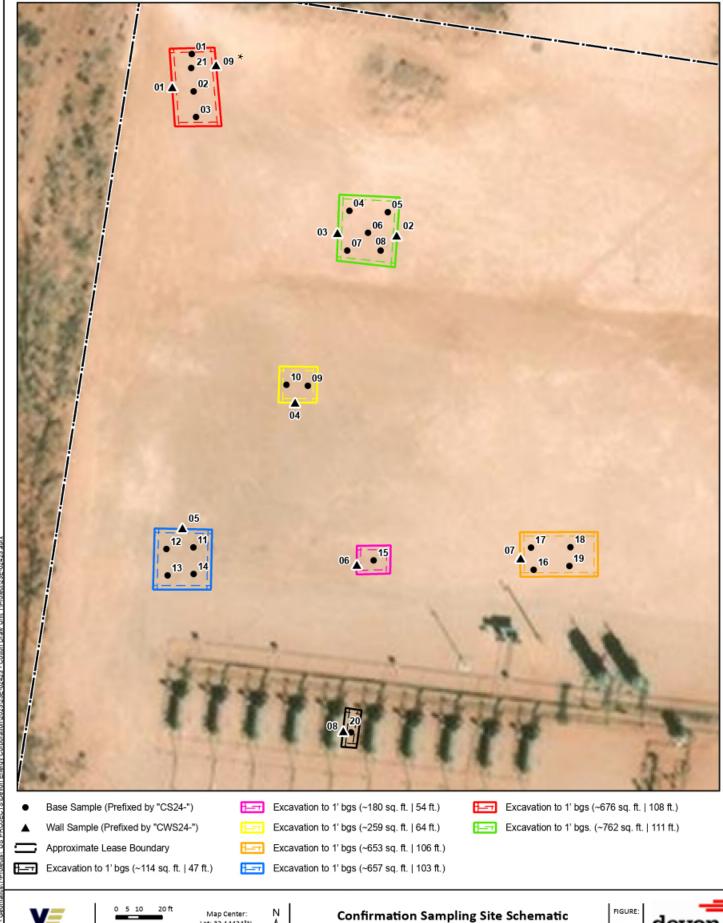
Released to Imaging: 4/23/2025 2:19:30 PM

NAD 1983 UTM Zone 13N

Date: Sep 30/24

Long:103.732456°W

Note: Georeferenced image from Esri, 2023. Approximate lease boundary approximated from imagery by Vertex Professional Services Ltd. (VPS), 2024. Site features from GPS, VPS, 2024.









Cotton Draw Unit 1-12 CTB





TABLES

Site Name: Cotton Draw Unit 1-12 CTB

NMOCD Tracking #: nAB1911927632, nAPP2312445915

Project #: 23E-02423

| Table 3. Characterization Laboratory Results | | | | | | | | | | | | | |
|--|---------------|--------------------------------------|-------------------------------------|--|------------------------|---------|-----------------------|-------------------------|--------------------------------|-----------------------------------|-------------|---------------------------------------|------------------------|
| : | Sample Descri | otion | Fi | eld Screeni | ng | | | Petrole | eum Hydro | | | | |
| | | | spuno | G | _ | Vol | atile | ა | | Extractable .೮ | 2 | | Inorganic |
| Sample ID | Depth (ft) | Sample Date | Volatile Organic Compounds (PID) | Extractable Organic Compounds (PetroFlag) | Chloride Concentration | Benzene | BTEX (Total) | Gasoline Range Organics | Diesel Range Organics (ORO) | Motor Oil Range Organics (MRO) | (GRO + DRO) | Total Petroleum Hydrocarbons (TPH) | Chloride Concentration |
| | | | (ppm) | (ppm) | (ppm) | (mg/kg) | (mg/kg) Depth to 0 | (mg/kg) Groundwat | (mg/kg) er 51-100' l | (mg/kg) ogs | (mg/kg) | (mg/kg) | (mg/kg) |
| SS20-01 | 0 | Febuary 3, 2020 | - | - | - | - | - | - | - | - | - | - | - |
| SS20-02 | 0 | February 3, 2020 | - | - | - | ND | ND | ND | 82 | 93 | 82 | 175 | ND |
| SS20-03 | 0 | February 3, 2020 | - | - | - | ND | ND | ND | 31 | ND | 31 | 31 | ND |
| SS20-04 | 0 | February 3, 2020 | - | - | - | - ND | - ND | - ND | - 50 | - 58 | 50 | 108 | - ND |
| SS20-05 SS20-06 | 0 | February 3, 2020 February 3, 2020 | - | - | - | - | - | - | - | - | - | - | - |
| SS20-07 | 0 | February 3, 2020 | - | - | - | - | - | - | - | - | - | - | - |
| SS20-08 | 0 | February 3, 2020 | - | - | - | ND | ND | ND | ND | ND | ND | ND | 110 |
| SS20-09 | 0 | February 3, 2020 | - | - | - | ND | ND | ND | 120 | 160 | 120 | 280 | ND |
| SS20-10 | 0 | February 3, 2020 | - | - | - | ND | ND | ND | 650 | 730 | 650 | 1380 | ND |
| | 0 | February 3, 2020 | - | - | 1,295 | - | - | - | - | - | | - | - |
| | 1 | February 3, 2020 | - | - | 1,540 | - | - | - | - | - | - | - | - |
| BH20-01 | 2.5 | February 3, 2020 February 3, 2020 | - | - | 2,099 | - | - | - | - | - | - | - | - |
| B1120-01 | 3 | , , | - | - | 1,776 | - | - | | - | - | - | - | - |
| | 4 | February 3, 2020 February 3, 2020 | - | 32 | 2,317 586 | - | - | | - | - | - | - | - |
| | 5 | February 3, 2020 | | - 32 | 110 | - | - | | - | - | | _ | - |
| | 0 | February 3, 2020 | _ | _ | 402 | _ | _ | _ | _ | _ | _ | _ | _ |
| | 1 | February 3, 2020 | _ | _ | 42 | _ | _ | _ | _ | _ | _ | _ | _ |
| BH20-02 | 2 | February 3, 2020 | _ | _ | 135 | _ | _ | _ | _ | _ | _ | _ | _ |
| | 3 | February 3, 2020 | - | _ | 1,836 | - | _ | _ | - | - | _ | - | - |
| | 0 | February 3, 2020 | - | >1,500 | ND | - | - | - | - | - | - | - | - |
| | 1 | February 3, 2020 | - | 21 | ND | - | - | - | - | - | - | - | - |
| | 2 | February 3, 2020 | - | - | ND | - | - | - | - | - | - | - | - |
| BH20-03 | 3 | February 3, 2020 | - | - | 75 | - | - | - | - | - | - | - | - |
| | 4 | February 3, 2020 | - | - | 42 | - | - | - | - | - | - | - | - |
| | 5 | February 7, 2020 | - | 42 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 5.5 | February 7, 2020 | - | - | 25 | - | - | - | - | - | - | - | - |
| | 0 | February 3, 2020 | - | >1,500 | 436 | - | - | - | - | - | - | - | - |
| | 1 | February 3, 2020 | - | 18 | ND | - | - | - | - | - | - | - | - |
| BH20-04 | 2 | February 3, 2020 | - | - | ND | - | - | - | - | - | - | - | - |
| | 3 | February 3, 2020 | - | - | ND | - | - | - | - | - | - | - | - |
| | 4 | February 3, 2020 | - | - | ND 42 | - | - | - | - | - | - | - | - |
| | 4.5 0 | February 3, 2020 | - | - | 12 | - | - | - | - | - | - | - | - |
| | 1 | February 3, 2020 February 3, 2020 | - | 23 | 11,169 249 | - | - | - | - | - | - | - | - |
| | 2 | February 3, 2020 | - | - 23 | ND | - | - | | - | - | - | - | - |
| | 3 | February 3, 2020 | - | - | ND ND | - | - | - | - | _ | - | _ | - |
| BH20-05 | 4 | February 3, 2020 | - | - | 71 | - | - | _ | - | - | - | - | - |
| | 5 | February 3, 2020 | - | - | 6,497 | - | - | _ | - | - | - | - | - |
| | 5.5 | February 3, 2020 | - | - | 8,927 | - | - | - | - | - | - | - | - |
| | 6 | June 22, 2023 | 0 | 71 | 330 | ND | ND | ND | ND | ND | ND | ND | 1,400 |
| | 0 | February 3, 2020 | - | - | 446 | - | - | - | - | - | - | - | - |
| | 1 | February 3, 2020 | - | - | 32 | - | - | - | - | - | - | - | - |
| BH20-06 | 2 | February 3, 2020 | - | - | 360 | - | - | - | - | - | - | - | - |
| 51120 00 | 3 | February 3, 2020 | - | - | 3,805 | - | - | - | - | - | - | - | - |
| | 4 | February 3, 2020 | - | - | 10,381 | - | - | - | - | - | - | - | - |
| | 5 | February 3, 2020 | - | - 1 500 | 5,768 | - | - | - | - | - | - | - | - |
| | 0 | February 3, 2020 February 3, 2020 | - | >1,500 37 | 428 673 | - | - | - | - | - | - | - | - |
| | 2 | February 3, 2020 | - | - | 1,832 | - | - | - | - | - | - | - | - |
| BH20-07 | 3 | February 3, 2020 | - | - | 2,362 | - | - | - | - | - | - | - | - |
| | 4 | February 3, 2020 | - | - | 4,848 | - | - | - | - | - | - | - | - |
| <u> </u> | 5 | February 3, 2020 | - | - | 230 | - | - | - | - | - | - | - | - |



Site Name: Cotton Draw Unit 1-12 CTB

NMOCD Tracking #: nAB1911927632, nAPP2312445915

Project #: 23E-02423

| | | | Table 3. Characterization Laboratory Results | | | | | | | | | | | |
|-----------|----------------|--------------------------------------|--|--|------------------------|----------------------------|--------------|-------------------------------|-------------------------------|--|-------------|---|--------------------------------|--|
| | Sample Descrip | ption | Fi | eld Screeni | ng | | | Petrole | eum Hydro | | | | | |
| Sample ID | Depth (ft) | Sample Date | Volatile Organic Compounds 3 (PID) | Extractable Organic Gompounds (PetroFlag) | Chloride Concentration | Voli Benzene (mg/kg) | BTEX (Total) | Gasoline Range Organics (GRO) | B Diesel Range Organics (DRO) | Motor Oil Range Organics (MRO) (MRO) | (GRO + DRO) | ত্র Total Petroleum স্থ্র Hydrocarbons (TPH) | Chloride Concentration (mg/kg) | |
| | 0 | February 3, 2020 | - | - | 6,508 | - | - | - | - | - | - | - | - | |
| | 1 | February 3, 2020 | - | - | 1,172 | - | - | - | - | - | - | - | - | |
| BH20-08 | 2 | February 3, 2020 | - | 25 | 451 | - | - | - | - | - | - | - | - | |
| | 3 4 | February 3, 2020 February 3, 2020 | - | - | 148 998 | - | - | - | - | - | - | - | - | |
| | 0 | February 3, 2020 | _ | _ | 8,441 | - | _ | _ | _ | _ | _ | _ | _ | |
| | 1 | February 3, 2020 | - | _ | 2,187 | _ | _ | _ | - | _ | _ | - | _ | |
| | 2 | February 3, 2020 | - | - | 2,490 | - | - | - | - | - | - | - | - | |
| BH20-09 | 3 | February 3, 2020 | - | | 4,669 | - | - | - | - | - | - | - | - | |
| | 4 | February 3, 2020 | - | - | 6,599 | - | - | - | - | - | - | - | - | |
| | 6 | June 22, 2023 | 0 | 67 | 333 | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 0 | February 3, 2020 | - | >1,500 | 2,627 | ND | ND | ND | 1,500 | 1,300 | 1,500 | 2,800 | 480 | |
| | 1 | February 3, 2020 | - | 10 | 9 | ND | ND | ND | ND | ND | ND | ND | ND | |
| BH20-10 | 2 | February 3, 2020 | - | - | ND | - | - | - | - | - | - | - | - | |
| 51120 10 | 3 | February 3, 2020 | - | - | 15 | - | - | - | - | - | - | - | - | |
| | 4 | February 3, 2020 | - | - | 58 | - | - | - | - | - | - | - | - | |
| | 5 | February 3, 2020 | - | - | 78 | - | - | - | - | - | - | - | - | |
| | 0 | February 3, 2020 | - | 34 | ND | - | - | - | - | - | - | - | - | |
| BH20-11 | 1 | February 3, 2020 | - | - | ND | - | - | - | - | - | - | - | - | |
| | 2 | February 3, 2020 | - | - | ND | - | - | - | - | - | - | - | - | |
| | 3 | February 3, 2020 | - | - | ND | - | - | - | - | - | - | - | - | |
| | 0 | February 7, 2020 | - | 135 | ND | ND | ND | ND | 11 | ND | 11 | 11 | ND | |
| BH20-12 | 2 | February 3, 2020 February 3, 2020 | - | - | ND ND | - | - | - | - | - | - | - | - | |
| | 3 | February 3, 2020 | - | - | 12 | | - | | | - | | - | - | |
| | 0 | May 8, 2023 | 2 | 45 | 343 | ND | ND | ND | ND | ND | ND | ND | 270 | |
| BH23-13 | 2 | May 8, 2023 | 1 | 32 | 186 | ND | ND | ND | ND | ND | ND | ND | 240 | |
| | 4 | May 8, 2023 | 1 | 86 | 567 | ND | ND | ND | ND | ND | ND | ND | 470 | |
| | 0 | May 8, 2023 | 0 | 47 | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| BH23-14 | 2 | May 8, 2023 | 0 | 27 | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 4 | May 8, 2023 | 0 | 25 | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 0 | May 8, 2023 | 2 | 1,030 | ND | ND | ND | ND | 5,600 | 2,600 | 5,600 | 8,200 | ND | |
| BH23-15 | 2 | May 8, 2023 | 0 | 25 | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 4 | May 8, 2023 | 0 | 36 | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 0 | May 8, 2023 | 0 | 31 | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| BH23-16 | 2 | May 8, 2023 | 0 | 17 | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 4 | May 8, 2023 | 0 | 40 | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| BH23-17 | 0 | May 8, 2023 | 0 | 24 | 2 | ND | ND | ND ND | ND | ND | ND | ND | ND | |
| 01123-17 | <u>2</u> 4 | May 8, 2023 May 8, 2023 | 0 | 62 | ND ND | ND ND | ND | ND | ND | ND ND | ND | ND ND | ND ND | |
| | 0 | May 8, 2023 | 0 | 41 550 | ND ND | ND ND | ND ND | ND ND | ND 180 | ND 290 | ND 180 | ND 470 | ND ND | |
| BH23-18 | 2 | May 8, 2023 | 0 | 63 | 209 | ND | ND ND | ND ND | ND | ND | ND | ND | ND ND | |
| | 4 | May 8, 2023 | 0 | 41 | 431 | ND | ND | ND | ND | ND | ND | ND ND | 170 | |
| | 0 | May 8, 2023 | 0 | 36 | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| BH23-19 | 2 | May 8, 2023 | 0 | 81 | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 3.5 | May 8, 2023 | 0 | 66 | 135 | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 0 | May 8, 2023 | 0 | >1500 | 46 | ND | ND | ND | 3,000 | 1,900 | 3,000 | 4,900 | ND | |
| BH23-20 | 2 | May 8, 2023 | 0 | 64 | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 3.5 | May 8, 2023 | 0 | 51 | 658 | ND | ND | ND | 11 | ND | 11 | 11 | 430 | |
| | 0 | May 9, 2023 | 0 | 58 | 819 | ND | ND | ND | ND | ND | ND | ND | 610 | |
| BH23-21 | 2 | May 9, 2023 | 0 | 65 | 515 | ND | ND | ND | ND | ND | ND | ND | 430 | |
| | 4 | May 9, 2023 | 0 | 24 | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 0 | May 9, 2023 | 0 | 31 | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| BH23-22 | 2 | May 9, 2023 | 0 | 23 | ND | ND | ND | ND | ND | ND | ND | ND | ND | |
| | 3.5 | May 9, 2023 | 0 | 0 | 408 | ND | ND | ND | ND | ND | ND | ND | 230 | |



Site Name: Cotton Draw Unit 1-12 CTB

NMOCD Tracking #: nAB1911927632, nAPP2312445915

Project #: 23E-02423

| | | | Character | erization Laboratory Results | | | | | | | | | |
|-----------|----------------|------------------------------|----------------------------------|---|------------------------|----------------------------|------------------------------|----------------------------------|-----------------------------|--------------------------------------|-----------|-----------------|-------------------------------|
| | Sample Descrip | otion | Fi | eld Screeni | ng | | | Petrole | eum Hydro | | | | |
| Sample ID | Depth (ft) | Sample Date | Volatile Organic Compounds (PID) | Extractable Organic Grompounds (PetroFlag) | Chloride Concentration | Vol. Beuzene (mg/kg) | atile B1EX (Total) (mg/kg) | Gasoline Range Organics (GRO) | Diesel Range Organics (DRO) | Motor Oil Range Organics Barry (MRO) | (gg/kg) | Total Petroleum | Chloride Concentration (8//8) |
| | 0 | May 9, 2023 | 0 | - | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-23 | 2 | May 9, 2023 | 0 | - | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 3.5 | May 9, 2023 | 0 | - | 1,232 | ND | ND | ND | ND | ND | ND | ND | 960 |
| | 0 | May 9, 2023 | 0 | 35 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-24 | 2 | May 9, 2023 | 0 | 26 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 3 | May 9, 2023 | 0 | 38 | 62 | ND | ND | ND | ND | ND | ND | ND | 200 |
| DU22.25 | 0 | May 9, 2023 | 1 | 18 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-25 | 2 | May 9, 2023 | 0 | 18 | ND | ND ND | ND | ND ND | ND | ND ND | ND | ND ND | ND ND |
| | 0 | May 9, 2023 | 0 | 34 | ND 11 | ND ND | ND | ND ND | ND | ND ND | ND | ND ND | ND ND |
| BH23-26 | 2 | May 9, 2023 May 9, 2023 | 1 | - | 11 | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND 220 |
| 1.120 20 | 3 | May 9, 2023 | 1 | - | 1,734 | ND ND | ND ND | ND ND | ND ND | ND ND | ND | ND ND | 1,900 |
| | 0 | May 9, 2023 | 12 | - | 3,531 | ND | ND | ND | 3,800 | 2,000 | 3,800 | 5,800 | 3,800 |
| BH23-27 | 2 | May 9, 2023 | 0 | - | 949 | ND | ND | ND | ND | ND | ND | ND | 1,100 |
| | 4 | May 9, 2023 | 2 | - | 2,268 | ND | ND | ND | ND | ND | ND | ND | 2,100 |
| | 0 | May 9, 2023 | 0 | 117 | 881 | ND | ND | ND | ND | ND | ND | ND | 970 |
| BH23-28 | 2 | May 9, 2023 | 0 | 36 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4 | May 9, 2023 | 0 | 34 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| 5,122.22 | 0 | May 9, 2023 | 0 | 65 | ND | ND | ND | ND | 110 | 99 | 110 | 209 | ND |
| BH23-29 | 2 | May 9, 2023 | 0 | 26 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 0 | May 9, 2023 | 2 | 88 | ND | ND | ND | ND ND | ND | ND F70 | ND | ND | 220 ND |
| BH23-30 | 2 | May 9, 2023 May 9, 2023 | 0 | 459 79 | ND ND | ND ND | ND ND | ND ND | 600 ND | 570 ND | 600 ND | 1,170 ND | ND 84 |
| B1123 30 | 3 | May 9, 2023 | 0 | 78 | 255 | ND | ND | ND | 63 | 62 | 63 | 125 | 320 |
| | 0 | May 9, 2023 | 0 | 52 | ND | ND | ND | ND | ND | ND | ND | ND | ND ND |
| BH23-31 | 2 | May 9, 2023 | 0 | 23 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 3.5 | May 9, 2023 | 0 | 78 | 226 | ND | ND | ND | ND | ND | ND | ND | 380 |
| | 0 | May 10, 2023 | 0 | - | 1 | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-32 | 2 | May 10, 2023 | 0 | - | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4 | May 10, 2023 | 0 | - | 2,185 | ND | ND | ND | ND | ND | ND | ND | 1,800 |
| 5,122.22 | 0 | May 10, 2023 | 0 | - | 82 | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-33 | 2 | May 10, 2023 | 0 | - | ND 1.046 | ND | ND | ND ND | ND | ND | ND | ND ND | ND 1.000 |
| | 3 | May 10, 2023 May 10, 2023 | 0 | 24 | 1,946 ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | 1,600 ND |
| BH23-34 | 2 | May 10, 2023 | 0 | 24 | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND |
| | 3 | May 10, 2023 | 0 | 41 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 0 | May 10, 2023 | 0 | 31 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-35 | 2 | May 10, 2023 | 0 | 25 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 3.5 | May 10, 2023 | 0 | 46 | 132 | ND | ND | ND | ND | ND | ND | ND | 61 |
| | 0 | May 10, 2023 | 0 | - | 503 | ND | ND | ND | 31 | ND | 31 | 31 | 360 |
| BH23-36 | 2 | May 10, 2023 | 0 | - | 796 | ND | ND | ND | ND | ND | ND | ND | 690 |
| | 4 | May 10, 2023 | 0 | - | 3,091 | ND | ND | ND | ND | ND | ND | ND | 2,600 |
| BH23-37 | 2 | May 10, 2023 | 0 | - | 642 | ND | ND | ND | 460 | 470 | 460 | 930 ND | 650 |
| DI 123-37 | 3 | May 10, 2023 May 10, 2023 | 0 | - | 1,441 4,059 | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | 1,400 4,200 |
| | 0 | May 10, 2023 | 0 | 35 | 4,039 ND | ND | ND | ND | ND | ND | ND | ND ND | 4,200 ND |
| BH23-38 | 2 | May 10, 2023 | 0 | 28 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 3' | May 10, 2023 | 0 | 58 | ND | ND | ND | ND | ND | ND | ND | ND | 110 |
| | 0 | May 10, 2023 | 0 | 43 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-39 | 2 | May 10, 2023 | 0 | 27 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4 | May 10, 2023 | 0 | 61 | ND | ND | ND | ND | ND | ND | ND | ND | 97 |
| | 0 | May 10, 2023 | 0 | - | 2,306 | ND | ND | ND | 70 | 110 | 70 | 180 | 2,300 |
| BH23-40 | 2 | May 10, 2023 | 0 | - | 2,345 | ND | ND | ND | ND 44 | ND | ND | ND 14 | 2,300 |
| | 3 | May 10, 2023 | 0 | - | 3,629 | ND | ND | ND | 14 | ND | 14 | 14 | 2,700 |



Site Name: Cotton Draw Unit 1-12 CTB

NMOCD Tracking #: nAB1911927632, nAPP2312445915

Project #: 23E-02423

| | Table 3. Characterization Laboratory Results | | | | | | | | | | | | |
|-----------|--|------------------------------|----------------------------------|--|------------------------|----------------------------|------------------------------|----------------------------------|-----------------------|--|----------|------------------------------------|--------------------------------|
| | Sample Descrip | ption | Fi | eld Screeni | ng | | | Petrole | eum Hydro | | | | |
| Sample ID | Depth (ft) | Sample Date | Volatile Organic Compounds (PID) | Extractable Organic Gompounds (PetroFlag) | Chloride Concentration | Vol. Beuzene (mg/kg) | atile B1EX (Total) (mg/kg) | Gasoline Range Organics (GRO) | Diesel Range Organics | Motor Oil Range Organics MACO Mac | (eg/kg) | Total Petroleum Hydrocarbons (TPH) | Chloride Concentration (mg/kg) |
| | 0 | May 10, 2023 | 0 | 38 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-41 | 2 | May 10, 2023 | 0 | 37 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4 | May 10, 2023 | 0 | 75 | 567 | ND | ND | ND | ND | ND | ND | ND | 470 |
| | 0 | May 10, 2023 | 0 | - | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-42 | 2 | May 10, 2023 | 0 | - | 50 | ND | ND | ND | ND | ND | ND | ND | 160 |
| | 4 | May 10, 2023 | 0 | - | 2,802 | ND | ND | ND | ND | ND | ND | ND | 2,200 |
| BH23-43 | 0 2 | May 10, 2023 May 10, 2023 | 0 | - | 1,955 2,335 | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | 2,100 2,400 |
| D1123.43 | 4 | May 10, 2023 | 0 | - | 1,083 | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | 1,100 |
| | 0 | May 11, 2023 | 0 | 34 | 199 | ND | ND | ND | ND | ND | ND | ND | 84 |
| BH23-44 | 2 | May 11, 2023 | 0 | 37 | 265 | ND | ND | ND | ND | ND | ND | ND | 180 |
| | 3.5 | May 11, 2023 | 0 | 34 | 633 | ND | ND | ND | ND | ND | ND | ND | 370 |
| | 0 | May 11, 2023 | 0 | 27 | 129 | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-45 | 2 | May 11, 2023 | 0 | 49 | 90 | ND | ND | ND | ND | ND | ND | ND | ND |
| | 3.5 | May 11, 2023 | 0 | 50 | 199 | ND | ND | ND | ND | ND | ND | ND | 95 ND |
| BH23-46 | 2 | May 11, 2023 May 11, 2023 | 0 | 39 69 | 233 76 | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND |
| 5.125 10 | 3.5 | May 11, 2023 | 0 | 42 | 471 | ND | ND | ND | ND | ND | ND | ND | 370 |
| | 0 | May 11, 2023 | 0 | 58 | 484 | ND | ND | ND | ND | ND | ND | ND | 310 |
| BH23-47 | 2 | May 11, 2023 | 0 | 82 | 470 | ND | ND | ND | ND | ND | ND | ND | 330 |
| | 4 | May 11, 2023 | 0 | 77 | 334 | ND | ND | ND | ND | ND | ND | ND | 270 |
| BH23-48 | 0 2 | May 11, 2023 May 11, 2023 | 0 | 36 39 | 38 28 | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND |
| 5.125 15 | 4 | May 11, 2023 | 0 | 50 | 66 | ND | ND | ND | ND | ND | ND | ND | ND |
| | 0 | May 11, 2023 | 0 | 38 | 44 | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-49 | 2 | May 11, 2023 | 0 | 27 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4 | May 11, 2023 | 0 | 38 | 8 | ND | ND | ND | ND | ND | ND | ND | ND |
| | 0 | May 11, 2023 | 0 | 42 | 207 | ND | ND | ND | ND | ND | ND | ND | 88 |
| BH23-50 | 2 | May 11, 2023 | 0 | 44 | 38 | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4 | May 11, 2023 | 0 | 47 | 191 | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-51 | 0 2 | May 11, 2023 May 11, 2023 | 0 | 50 40 | 128 44 | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND |
| B1123-31 | 4 | May 11, 2023 | 0 | 22 | 34 | ND ND | ND ND | ND ND | ND ND | ND ND | ND | ND ND | ND |
| | 0 | May 11, 2023 | 0 | 34 | 96 | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-52 | 2 | May 11, 2023 | 0 | 28 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4 | May 11, 2023 | 0 | 18 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 0 | May 11, 2023 | 0 | 43 | 147 | ND | ND | ND | ND | ND | ND | ND | 89 |
| BH23-53 | 2 | May 11, 2023 | 0 | 19 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4 | May 11, 2023 | 0 | 36 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-54 | 0 2 | May 11, 2023 May 11, 2023 | 0 | 36 26 | ND ND | ND ND | ND | ND | ND ND | ND | ND | ND | ND ND |
| D1123 34 | 4 | May 11, 2023 | 0 | 43 | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND |
| | 0 | May 12, 2023 | 0 | 63 | ND | ND | ND | ND | 12 | ND | 12 | 12 | ND |
| BH23-55 | 2 | May 12, 2023 | 0 | 22 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4 | May 12, 2023 | 0 | 43 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 0 | May 12, 2023 | 0 | 580 | ND | ND | ND | ND | 400 | 250 | 400 | 650 | ND |
| BH23-56 | 2 | May 12, 2023 | 0 | 45 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4 | May 12, 2023 | 0 | 60 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| DU22 57 | 0 | May 12, 2023 | 0 | 521 | ND | ND | ND | ND | 260 | 190 | 260 | 450 | ND |
| BH23-57 | 2 | May 12, 2023 | 0 | 20 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4 | May 12, 2023 May 12, 2023 | 0 | 22 173 | ND 77 | ND ND | ND | ND ND | ND 94 | ND 00 | ND 84 | ND 172 | ND 160 |
| BH23-58 | 2 | May 12, 2023 | 0 | 75 | 243 | ND ND | ND ND | ND ND | 84 ND | 88 ND | ND | 172 ND | 160 300 |
| 1.125 50 | 4 | | 0 | 34 | ND | ND | ND | ND | ND | ND ND | ND | ND | ND |
| | 4 | May 12, 2023 | 0 | 34 | ND | ND | ND | ND | ND | ND | ND | ND | ND |



Site Name: Cotton Draw Unit 1-12 CTB

NMOCD Tracking #: nAB1911927632, nAPP2312445915

Project #: 23E-02423

| | | | Character | erization Laboratory Results | | | | | | | | | |
|-----------|----------------|--------------------------------|----------------------------------|--|------------------------|----------------------------|-------------------------------|----------------------------------|-----------------------------|--------------------------------------|-------------|---------------------------------------|--------------------------------|
| | Sample Descrip | otion | Fi | eld Screeni | ng | | | Petrole | eum Hydro | | | | |
| Sample ID | Depth (ft) | Sample Date | Volatile Organic Compounds (PID) | Extractable Organic Gompounds (PetroFlag) | Chloride Concentration | Vol. Beuzene (mg/kg) | atile BATEX (Total) (mg/kg) | Gasoline Range Organics (GRO) | Diesel Range Organics (PRO) | Motor Oil Range Organics Barry (MRO) | (GRO + DRO) | Total Petroleum Hydrocarbons (TPH) | Chloride Concentration (mg/kg) |
| | 0 | May 12, 2023 | 0 | - | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-59 | 2 | May 12, 2023 | 0 | - | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4 | May 12, 2023 | 0 | - | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 0 | May 12, 2023 | 0 | 562 | ND | ND | ND | ND | 270 | 320 | 270 | 590 | ND |
| BH23-60 | 2 | May 12, 2023 | 0 | 70 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 4 | May 12, 2023 | 0 | 47 | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 0 | May 12, 2023 | 0 | - | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-61 | 2 | May 12, 2023 | 0 | - | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| | 3.5 | May 12, 2023 | 0 | - | 444 | ND | ND | ND | ND | ND | ND | ND | 430 |
| | 6 | June 22, 2023 | 0 | 33 | 360 | ND | ND | ND | ND 41 | ND | ND 41 | ND 122 | ND |
| BH23-62 | 0 2 | May 12, 2023 | 0 | - | ND | ND | ND | ND | 41 ND | 82 ND | 41 ND | 123 | ND ND |
| BH23-02 | 4 | May 12, 2023 | 0 | - | ND ND | ND | ND | ND | ND | ND | ND ND | ND | ND |
| | 0 | May 12, 2023 June 22, 2023 | 0 | 28 | 205 | ND ND | ND ND | ND ND | ND ND | ND ND | ND | ND ND | ND ND |
| BH23-63 | 2 | June 22, 2023 | 0 | 31 | 200 | ND ND | ND | ND ND | ND | ND | ND | ND | ND |
| | 0 | June 22, 2023 | 0 | 29 | 240 | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-64 | 2 | June 22, 2023 | 0 | 23 | 255 | ND | ND | ND | ND | ND | ND | ND | ND |
| DU 22 CE | 0 | June 22, 2023 | 0 | 14 | 245 | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-65 | 2 | June 22, 2023 | 0 | 17 | 233 | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-66 | 0 | June 24, 2023 | 0 | 34 | 245 | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-00 | 2 | June 24, 2023 | 0 | 26 | 152 | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-67 | 0 | June 24, 2023 | 0 | 35 | 195 | ND | ND | ND | ND | ND | ND | ND | ND |
| 51123 07 | 2 | June 24, 2023 | 0 | 12 | 157 | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-68 | 0 | June 24, 2023 | 0 | 47 | 1,345 | ND | ND | ND | ND | ND | ND | ND | 1,000 |
| | 2 | June 24, 2023 | 0 | 70 | 405 | ND | ND | ND | ND | ND | ND | ND | 300 |
| BH23-69 | 0 | June 24, 2023 | 0 | 35 | 328 | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2 | June 24, 2023 | 0 | 30 | 212 | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-70 | 0 2 | June 24, 2023 | 0 | 30 | 232 | ND | ND | ND | ND | ND | ND | ND | ND |
| | 0 | June 24, 2023 June 24, 2023 | 0 | 11 63 | 270 337 | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND 240 |
| BH23-71 | 2 | June 24, 2023 | 0 | 18 | 192 | ND ND | ND ND | ND | ND ND | ND | ND | ND ND | ND |
| 51125 72 | 4 | June 24, 2023 | 0 | 30 | 187 | ND | ND | ND | ND | ND | ND | ND | ND |
| | 0 | June 24, 2023 | 0 | 36 | 307 | ND | ND | ND | ND | ND | ND | ND | 82 |
| BH23-72 | 2 | June 24, 2023 | 0 | 25 | 255 | ND | ND | ND | ND | ND | ND | ND | 70 |
| | 4 | June 24, 2023 | 0 | 45 | 200 | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-73 | 0 | June 24, 2023 | 0 | 45 | 272 | ND | ND | ND | ND | ND | ND | ND | 98 |
| 5.125 / 5 | 2 | June 24, 2023 | 0 | 74 | 275 | ND | ND | ND | ND | ND | ND | ND | 160 |
| BH23-74 | 0 | June 24, 2023 | 0 | 91 | 233 | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2 | June 24, 2023 | 0 | 60 | 217 | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-75 | 0 | June 25, 2023 | 0 | 23 | 182 | ND | ND | ND | ND | ND | ND | ND | ND |
| | 2 | June 25, 2023 | 0 | 35 | 197 | ND | ND | ND | ND | ND | ND | ND | ND 510 |
| BH23-76 | 0 | June 25, 2023 | 0 | 51 | 810 | ND | ND | ND | ND | ND ND | ND | ND ND | 510 |
| DI125-70 | 2 4 | June 25, 2023 June 25, 2023 | 0 | 32 | 187 230 | ND ND | ND | ND | ND | ND ND | ND ND | ND ND | 130 87 |
| | 0 | June 25, 2023 | 0 | 36 650 | 230 | ND ND | ND ND | ND ND | ND 1,000 | ND 860 | 1,000 | ND 1,860 | ND |
| BH23-77 | 2 | June 25, 2023 | 0 | 20 | 158 | ND ND | ND ND | ND ND | 1,000 ND | ND | 1,000 ND | 1,860 ND | ND |
| l · · | 4 | June 25, 2023 | 0 | 33 | 215 | ND | ND ND | ND | ND | ND | ND | ND ND | 92 |
| | 0 | June 25, 2023 | 0 | 31 | 295 | ND | ND | ND | ND | ND | ND | ND ND | ND |
| BH23-78 | 2 | June 25, 2023 | 0 | 13 | 142 | ND | ND | ND | ND | ND | ND | ND | ND |
| DL122 70 | 0 | June 26, 2023 | 0 | 39 | 180 | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-79 | 2 | June 26, 2023 | 0 | 32 | 153 | ND | ND | ND | ND | ND | ND | ND | 100 |
| | 0 | June 26, 2023 | 22 | 1,004 | 180 | ND | ND | ND | 3,000 | 1,700 | 3,000 | 4,700 | 61 |
| BH23-80 | 2 | June 26, 2023 | 0 | 35 | 178 | ND | ND | ND | ND | ND | ND | ND | 92 |
| | 4 | June 26, 2023 | 0 | 31 | 550 | ND | ND | ND | ND | ND | ND | ND | 210 |



Site Name: Cotton Draw Unit 1-12 CTB

NMOCD Tracking #: nAB1911927632, nAPP2312445915

Project #: 23E-02423

Lab Reports: 2002448, 2305494, 2305593, 2305697, 2305754, 2305809, 2306C86, 2306D50 and 2306E09

| | | | | Table 3. | Character | ization Lal | oratory R | Results | | | | | |
|-----------|----------------|---------------|-------------------------------------|--|------------------------|-------------|--------------|----------------------------------|--------------------------------|-----------------------------------|-------------|---------------------------------------|------------------------|
| : | Sample Descrip | otion | Fi | eld Screeni | ng | | | Petrole | um Hydro | carbons | | | |
| | | | s | | | Vol | atile | | | Extractable | ļ | | Inorganic |
| Sample ID | Depth (ft) | Sample Date | Volatile Organic Compounds (PID) | Extractable Organic Compounds (PetroFlag) | Chloride Concentration | Benzene | BTEX (Total) | Gasoline Range Organics (GRO) | Diesel Range Organics (DRO) | Motor Oil Range Organics (MRO) | (GRO + DRO) | Total Petroleum Hydrocarbons (TPH) | Chloride Concentration |
| | | | (ppm) | (ppm) | (ppm) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| BH23-81 | 0 | June 26, 2023 | 0 | 30 | 212 | ND | ND | ND | ND | ND | ND | ND | ND |
| D1125-01 | 2 | June 26, 2023 | 0 | 37 | 120 | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-82 | 0 | June 26, 2023 | 0 | 21 | 200 | ND | ND | ND | ND | ND | ND | ND | ND |
| D1123-02 | 2 | June 26, 2023 | 0 | 30 | 173 | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-83 | 0 | June 26, 2023 | 0 | 35 | 325 | ND | ND | ND | ND | ND | ND | ND | 110 |
| 51123-63 | 2 | June 26, 2023 | 0 | 23 | 177 | ND | ND | ND | ND | ND | ND | ND | ND |
| BH23-84 | 0 | June 26, 2023 | 0 | 41 | 257 | ND | ND | ND | ND | ND | ND | ND | ND |
| D1123-04 | 2 | June 26, 2023 | 0 | 38 | 300 | ND | ND | ND | ND | ND | ND | ND | 61 |

[&]quot;ND" Not Detected at the Reporting Limit

Bold and grey shaded indicates exceedance outside of NM OCD Closure Criteria (on-pad)



[&]quot;-" indicates not analyzed/assessed

Site Name: Cotton Draw Unit 1-12 CTB

NMOCD Tracking #: nAB1911927632, nAPP2312445915

Project #: 23E-02423

Lab Reports: 885-7227-1 and 01058-0007

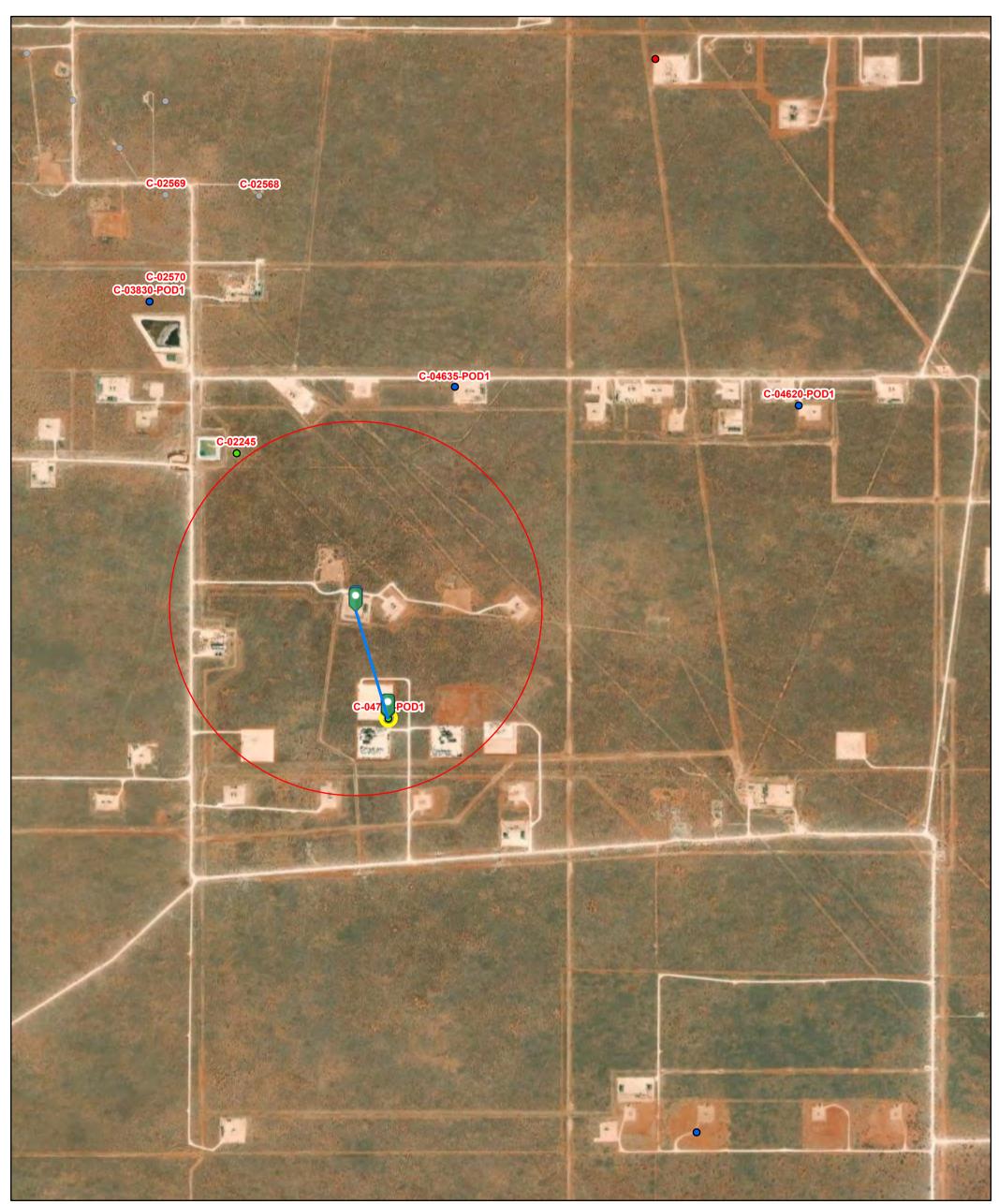
| | | Table 4. Confirmatory | Sample Fi | eld Screen | and Labo | ratory Res | ults | | |
|------------------------|------------|--------------------------------|-----------|--------------|----------------------------------|--------------------------------|-----------------------------------|---------------------------------------|------------------------|
| | Sample Des | | | | etroleum H | | | | |
| | | • | Vol | atile | | Extra | ctable | | Inorganic |
| Sample ID | Depth (ft) | Sample Date | Benzene | BTEX (Total) | Gasoline Range Organics (GRO) | Diesel Range Organics (DRO) | Motor Oil Range Organics (MRO) | Total Petroleum Hydrocarbons (TPH) | Chloride Concentration |
| | | | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| 5 16:11 04 | | | | | epth to Gro | | | | |
| Backfill-01 | 0 | June 28, 2024 | ND | ND | ND | ND | ND | ND | 60 |
| Backfill-02 CW24-01 | 0 0-1 | June 28, 2024 | ND | ND | ND | ND | ND | ND | 74 ND |
| | | July 16, 2024 | ND | ND | ND | 32 ND | ND | ND | ND |
| CW24-02 CW24-03 | 0-1 0-1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | ND |
| CW24-03 CW24-04 | 0-1 | July 16, 2024 | ND ND | ND | ND ND | ND | ND | ND ND | ND |
| CW24-04 CW24-05 | 0-1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | ND |
| CW24-05 CW24-06 | 0-1 | July 16, 2024 July 16, 2024 | ND ND | ND | ND ND | ND | ND | ND ND | ND |
| CW24-06 CW24-07 | 0-1 | July 16, 2024 July 16, 2024 | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND | ND ND |
| CW24-07 | 0-1 | July 16, 2024 | ND ND | ND | ND ND | ND ND | ND | ND ND | ND |
| CSW24-08* | 0-1 | July 10, 2024 | IND - | ND - | ND - | - | ND - | ND - | - |
| CWS24-09 | 0-1 | October 30, 2024 | ND | ND | ND | ND | ND | ND | 48.6 |
| CS24-01 | 1 | July 16, 2024 | ND | ND | ND | 10 | ND | 10 | ND |
| CS24-02 | 1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | ND |
| CS24-03 | 1 | July 16, 2024 | ND | ND | ND | 390 | 230 | ND | ND |
| CS24-04 | 1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | ND |
| CS24-05 | 1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | ND |
| CS24-06 | 1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | ND |
| CS24-07 | 1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | ND |
| CS24-08 | 1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | ND |
| CS24-09 | 1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | ND |
| CS24-10 | 1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | ND |
| CS24-11 | 1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | 1200 |
| CS24-12 | 1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | 310 |
| CS24-13 | 1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | 530 |
| CS24-14 | 1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | 66 |
| CS24-15 | 1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | ND |
| CS24-16 | 1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | ND |
| CS24-17 | 1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | ND |
| CS24-18 | 1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | ND |
| CS24-19 | 1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | ND |
| CS24-20 | 1 | July 16, 2024 | ND | ND | ND | ND | ND | ND | ND |
| CS24-21 | 1 | October 30, 2024 | ND | ND | ND | ND | ND | ND | ND |



APPENDIX A – Closure Criteria Research Documentation

| | e: Cotton Draw Unit 1-12 CTB | l | |
|---------|---|-----------|--------------|
| | dinates: 32.143975,-103.732463 | X: 619542 | Y: 3557098 |
| te Spec | ific Conditions | Value | Unit |
| | Depth to Groundwater (nearest reference) | >55 | feet |
| 1 | Distance between release and nearest DTGW reference | 1,594 | feet |
| _ | | 0.30 | miles |
| | Date of nearest DTGW reference measurement | Febru | uary 6, 2024 |
| 2 | Within 300 feet of any continuously flowing watercourse | 27,893 | feet |
| | or any other significant watercourse | | |
| 3 | Within 200 feet of any lakebed, sinkhole or playa lake | 87,648 | feet |
| | (measured from the ordinary high-water mark) | - , | |
| 4 | Within 300 feet from an occupied residence, school, | 36,205 | feet |
| | hospital, institution or church | , | |
| | i) Within 500 feet of a spring or a private, domestic fresh | 2.020 | |
| _ | water well used by less than five households for | 2,839 | feet |
| 5 | domestic or stock watering purposes, or | | |
| | ii) Within 1000 feet of any fresh water well or spring | 2, 3 | feet |
| | Within incorporated municipal boundaries or within a | | |
| | defined municipal fresh water field covered under a | | |
| 6 | municipal ordinance adopted pursuant to Section 3-27-3 | No | (Y/N) |
| | NMSA 1978 as amended, unless the municipality | | (, , |
| | specifically approves | | |
| 7 | Within 300 feet of a wetland | 9,552 | feet |
| | Within the area overlying a subsurface mine | No | (Y/N) |
| 8 | | 22.422 | |
| | Distance between release and nearest registered mine | 89,103 | feet |
| | | | Critical |
| | Within an unstable area (Karst Man) | Law | High |
| 0 | Within an unstable area (Karst Map) | Low | Medium |
| 9 | | | Low |
| | Distance between release and nearest unstable area | 22,559 | feet |
| | Within a 100-year Floodplain | 500 | year |
| 10 | Distance between release and nearest FEMA Zone A (100- | | |
| | year Floodplain) | 1,144 | feet |
| 11 | Soil Type | | Pajarito |
| | ·· | | - |
| 12 | Ecological Classification | loan | ny fine sand |
| 13 | Geology | | Qep |
| | | | <50' |
| | NMAC 19.15.29.12 E (Table 1) Closure Criteria | 51-100' | 51-100' |
| | | 1 | >100' |

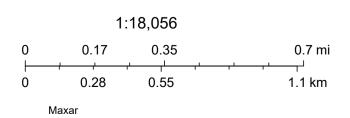
OSE POD Location Map



3/14/2024, 9:27:52 AM

Override 1
GIS WATERS PODs

- Active
- Pending
- Plugged





New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

| water right file.) | closed) | (quarters | are smallest to larges | st) (NAD83 UTWI IN Me | eters) | (in feet) |
|--------------------|----------------|-------------|------------------------|-----------------------|--------------|--------------|
| | POD Sub- | QQG | 2 | | Depth | Depth Water |
| POD Number | Code basin Cou | nty 64 16 4 | 4 Sec Tws Rng | X Y | Distance Wel | Water Column |
| C 04792 POD1 | CUB E | 1 3 4 | 4 12 25S 31E | 619688 3556651 🌕 | 487 55 | 5 |
| C 04635 POD1 | CUB E | 4 3 4 | 4 01 25S 31E | 619958 3558078 🌑 | 1047 55 | 5 |
| C 03830 POD1 | CUB E | 4 2 4 | 4 02 25S 31E | 618632 3558432 🌑 | 1599 450 |) |
| C 02570 | CUB E | 4 2 4 | 4 02 25S 31E | 618704 3558489* 🌑 | 1607 895 | 5 |
| C 02568 | CUB E | 4 3 | 1 01 25S 31E | 619103 3558892* | 1828 1025 | 5 |
| C 02569 | CUB E |) 442 | 2 02 25S 31E | 618699 3558891* 🌑 | 1963 1016 | 5 |
| C 04620 POD1 | CUB LE | 4 3 4 | 4 06 25S 32E | 621445 3558018 🌑 | 2106 55 | 5 |
| C 02573 | CUB E | 1 4 2 | 2 02 25S 31E | 618499 3559091* 🌍 | 2232 | |
| C 02572 | CUB E | 4 2 2 | 2 02 25S 31E | 618695 3559294* 🌍 | 2335 852 | 2 |
| <u>C 02571</u> | CUB E | 4 1 2 | 2 02 25S 31E | 618292 3559294* 🌍 | 2509 860 |) |
| C 04618 POD1 | CUB LE | 3 4 3 | 3 18 25S 32E | 621041 3554886 🌑 | 2687 55 | 5 |
| C 04722 POD2 | CUB LE | 2 1 | 1 06 25S 32E | 620808 3559499 | 2698 55 | 5 |
| C 02574 | CUB E | 112 | 2 02 25S 31E | 618092 3559494* | 2783 | |
| C 04632 POD1 | CUB E | 1 2 2 | 2 10 25S 31E | 616802 3557964 | 2866 55 | 5 |
| C 04795 POD1 | CUB LE | 4 4 | 1 08 25S 32E | 622865 3557423 | 3337 | |
| C 04593 POD1 | CUB E | 3 4 4 | 4 34 24S 31E | 616903 3559674 | 3674 55 | 5 |
| C 04654 POD1 | CUB E | 3 3 4 | 4 25 24S 31E | 619764 3561226 | 4115 55 | 5 |
| C 04636 POD1 | CUB E | 3 4 3 | 3 25 24S 31E | 619200 3561279 | 4176 | |
| C 04643 POD1 | C E | 4 2 2 | 2 05 23S 27E | 619200 3561279 🌑 | 4176 305 | 5 135 170 |
| C 04633 POD1 | CUB E | 2 1 | 1 35 24S 31E | 617394 3561170 🌑 | 4586 | |
| | | | | | | |

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

 \mathbf{X}

NA

CP 01985 POD1

19S 31E

604666 3614438

Driller License:

1184

Driller Company:

WEST TEXAS WATER WELL SERVICE

Driller Name:

RUSSELL SOUTHERLAND

Drill Finish Date:

01/18/2024

Plug Date:

Drill Start Date: Log File Date:

01/18/2024

PCW Rcv Date:

Source:

02/05/2024

Pump Type:

Pipe Discharge Size:

Estimated Yield: Depth Water:

Casing Size: Depth Well: 55 feet

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3/13/24 4:43 PM

POINT OF DIVERSION SUMMARY



Cotton Draw Unit 1-12 CTB Watercourse 27,893ft



August 31, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

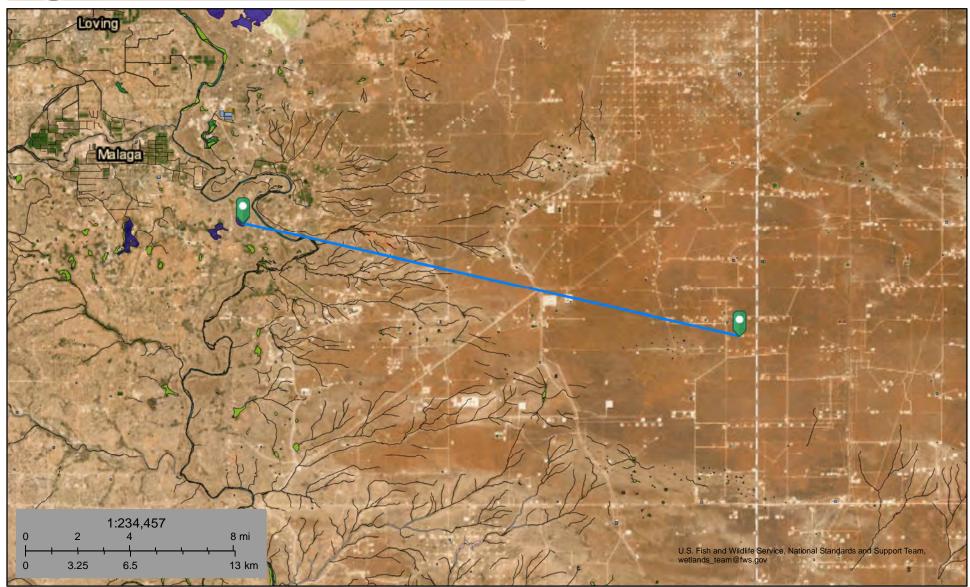
Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



CottonÁDraw Unit1-12ÁCTB Lake ÌÏ Ēlì €



April 27, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

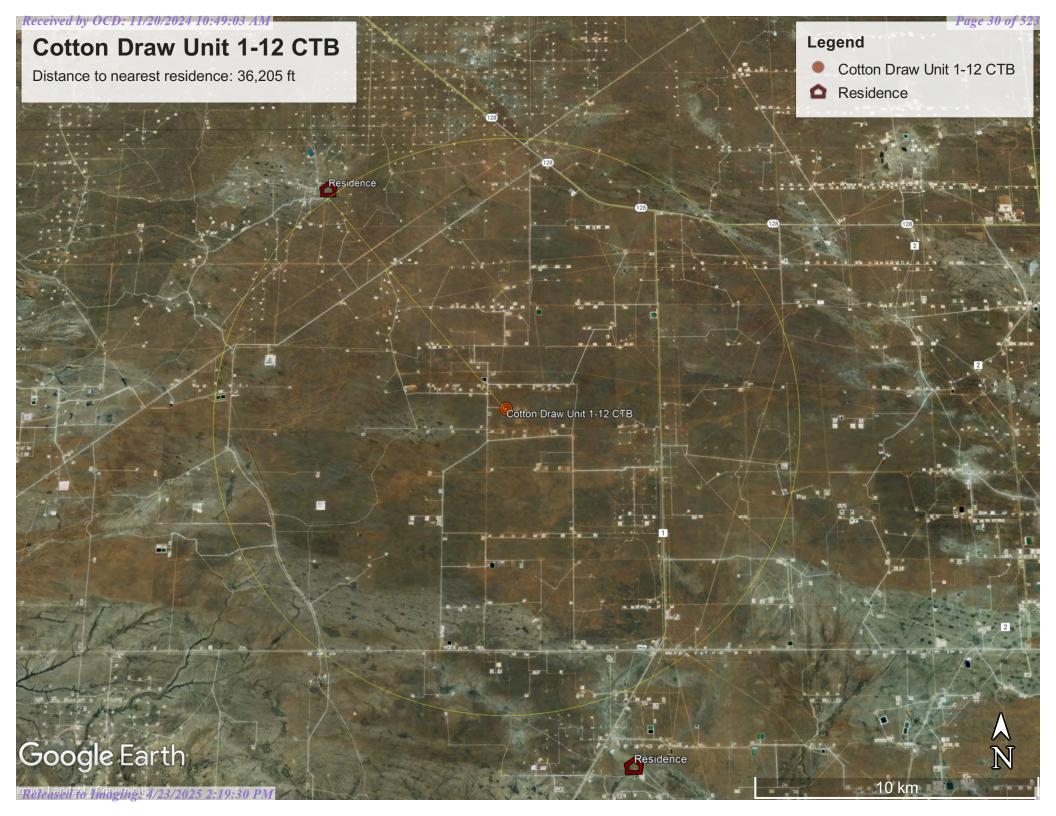
Freshwater Pond

Lake

Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Active & Inactive Points of Diversion

| (with Ownership Information) | | | | | | | | | | | | | | | | | | | | |
|---|----------------|---------------------|------------|------------------------|--------|--------------|----------|--|-------|--------|--|-----|----|-----|-----|-------|-----------------------|-------------|-----|----------|
| | | (acre ft per annum) | | | | | | (R=POD has been replaced and no longer serves this file, C=the file is closed) | | | (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) | | | | | | (NAD83 UTM in meters) | | | (meters) |
| WR File Nbr | Sub basin | Use | Diversion | Owner | County | POD Number | Well Tag | Code | Grant | Source | q64 | q16 | q4 | Sec | Tws | Range | x | Υ | Мар | Distance |
| <u>C 04792</u> | CUB | MON | 0.000 | DEVON ENERGY RESOURCES | ED | C 04792 POD1 | NA | | | | NW | SW | SE | 12 | 25S | 31E | 619687.5 | 3556651.9 | • | 469.2 |
| <u>C 02245</u> | С | STK | 3.000 | TWIN WELLS RANCH LLC | ED | C 02245 | | | | | | NW | NW | 12 | 25S | 31E | 619018.0 | 3557785.0 * | • | 864.0 |
| <u>C 04635</u> | CUB | EXP | 0.000 | DEVON ENERGY | ED | C 04635 POD1 | NA | | | | SE | SW | SE | 01 | 25S | 31E | 619957.6 | 3558078.3 | • | 1,064.8 |
| Record Coun | t: 3 | | | | | | | | | | | | | | | | | | | |
| Filters Applie | ed: | | | | | | | | | | | | | | | | | | | |
| UTM Filters (Easting: 6195 Northing: 35 Radius: 1610. | 542 57098 | | | | | | | | | | | | | | | | | | | |
| Sorted By: Di | istance | | | | | | | | | | | | | | | | | | | |
| JTM location wa | as derived fro | m PLSS | - see Help | | | | | | | | | | | | | | | | | |

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8/31/24 5:26 PM MST

Active & Inactive Points of Diversion

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Cotton Draw Unit1-12CTB Wetland 9,552ft



April 27, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Cotton Draw 1-12 CTB Mines 89,103ft



3/22/2024, 3:34:09 PM

Registered Mines

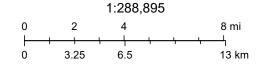
Aggregate, Stone etc.

* Aggregate, Stone etc.

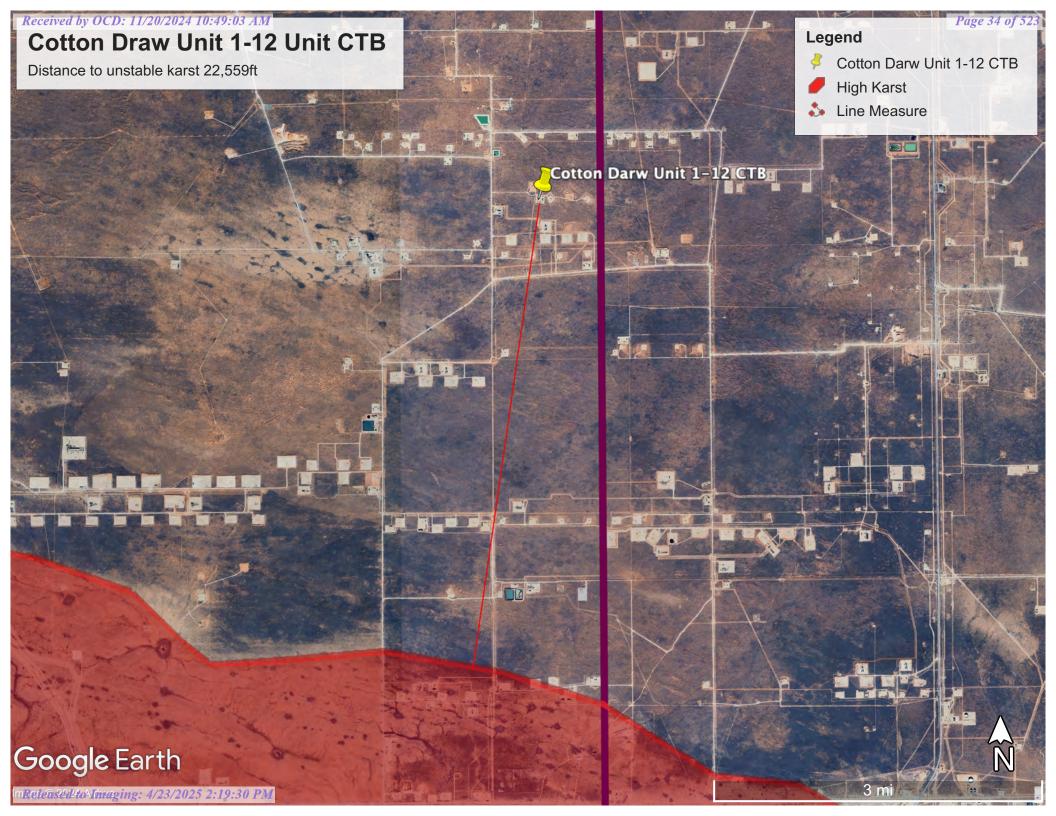
Potash

Salt

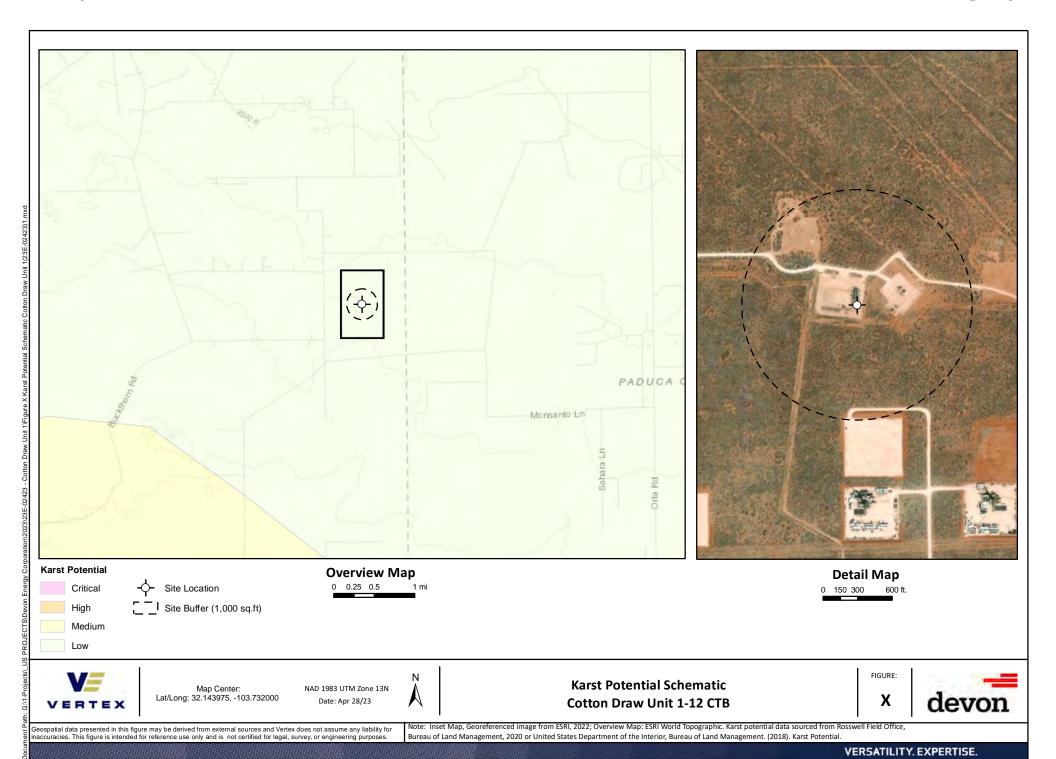
* Aggregate, Stone etc.



Earthstar Geographics



Received by OCD: 11/20/2024 10:49:03 AM



National Flood Hazard Layer FIRMette





Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas

> areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X

of 1% annual chance flood with average depth less than one foot or with drainage

Area with Flood Risk due to Levee Zone D

Area of Undetermined Flood Hazard Zone D

NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS

- - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLILL Levee, Dike, or Floodwall

> 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary **Coastal Transect Baseline**

FEATURES Hydrographic Feature Digital Data Available

OTHER

MAP PANELS

No Digital Data Available

Profile Baseline

Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

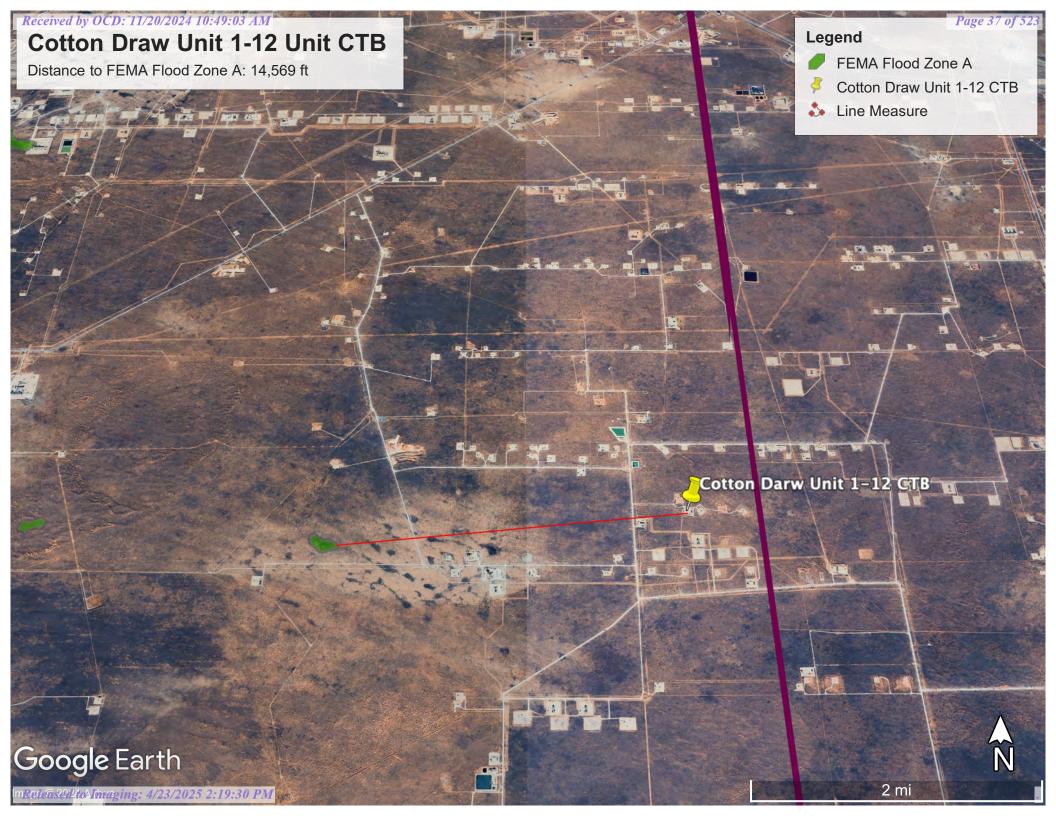
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/27/2023 at 11:10 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



2.000





NRCS

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

Custom Soil Resource Report for Eddy Area, New Mexico



Preface

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

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

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

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

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

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

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How Soil Surveys Are Made

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

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

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

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

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

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

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

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

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

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

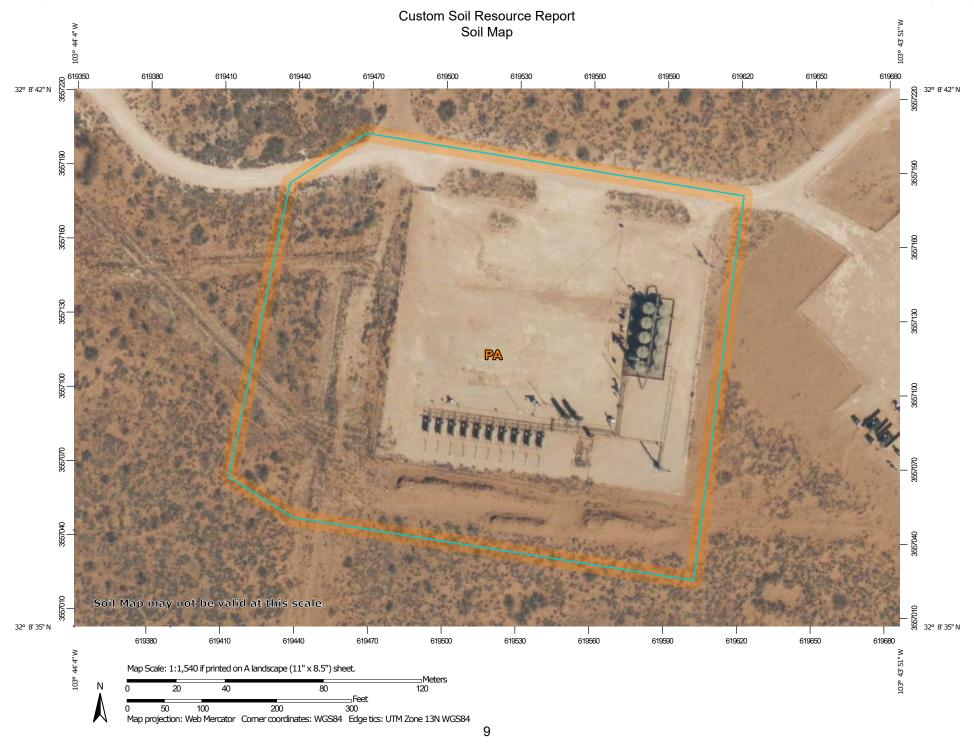
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree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

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

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

Soil Map

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



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

-

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

(

Blowout

 \boxtimes

Borrow Pit

Clay Spot

♦ 0

Closed Depression

×

Gravel Pit

...

Gravelly Spot

0

Landfill Lava Flow

٨.

Marsh or swamp

尕

Mine or Quarry

0

Miscellaneous Water

Perennial Water

0

Rock Outcrop

+

Saline Spot

...

Sandy Spot

0

Severely Eroded Spot

۸

Sinkhole

Ø

Sodic Spot

Slide or Slip

8

Spoil Area Stony Spot



Very Stony Spot

Ø

Wet Spot Other

Δ.

Special Line Features

Water Features

~

Streams and Canals

Transportation

ansp

Rails

~

Interstate Highways

US Routes

~

Major Roads Local Roads

Background

1900

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 18, Sep 8, 2022

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

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

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|-----------------------------|---|--------------|----------------|
| PA | Pajarito loamy fine sand, 0 to 3 percent slopes, eroded | 7.2 | 100.0% |
| Totals for Area of Interest | | 7.2 | 100.0% |

Map Unit Descriptions

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

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

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

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

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

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

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

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

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

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

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

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

Eddy Area, New Mexico

PA—Pajarito loamy fine sand, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w54 Elevation: 2,700 to 5,500 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 250 days

Farmland classification: Not prime farmland

Map Unit Composition

Pajarito and similar soils: 98 percent Minor components: 2 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pajarito

Setting

Landform: Plains, interdunes, dunes

Landform position (three-dimensional): Side slope

Down-slope shape: Convex, linear Across-slope shape: Linear, convex

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 13 inches: loamy fine sand H2 - 13 to 36 inches: fine sandy loam H3 - 36 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00

in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 7.9 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Berino

Percent of map unit: 1 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

Wink

Percent of map unit: 1 percent Ecological site: R070BD003NM - Loamy Sand Hydric soil rating: No

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Ecological site R070BD003NM Loamy Sand

Accessed: 04/27/2023

General information

Provisional. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

Associated sites

| R070BD004NM | Sandy Sandy |
|-------------|-------------------------------|
| R070BD005NM | Deep Sand Deep Sand |

Table 1. Dominant plant species

| Tree | Not specified |
|------------|---------------|
| Shrub | Not specified |
| Herbaceous | Not specified |

Physiographic features

This site is on uplands, plains, dunes, fan piedmonts and in inter dunal areas. The parent material consists of mixed alluvium and or eolian sands derived from sedimentary rock. Slope range on this site range from 0 to 9 percent with the average of 5 percent.

Low stabilized dunes may occur occasionally on this site. Elevations range from 2,800 to 5,000 feet.

Table 2. Representative physiographic features

| Landforms | (1) Fan piedmont(2) Alluvial fan(3) Dune |
|-----------|--|
| Elevation | 2,800–5,000 ft |
| Slope | 0–9% |
| Aspect | Aspect is not a significant factor |

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity-short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes.

The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 207 to 220 days. The last killing frost being late March or early April and the first killing frost being in later October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest from January through June, which accelerates soil drying during a critical period for cool season plant growth.

Climate data was obtained from http://www.wrcc.sage.dri.edu/summary/climsmnm.html web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

Table 3. Representative climatic features

| Frost-free period (average) | 221 days |
|-------------------------------|----------|
| Freeze-free period (average) | 240 days |
| Precipitation total (average) | 13 in |

Influencing water features

This site is not influenced from water from wetlands or streams.

Soil features

Soils are moderately deep or very deep. Surface textures are loamy fine sand, fine sandy loam, loamy very fine sand or gravelly sandy loam.

Subsurface is a loamy fine sand, coarse sandy loam, fine sandy loam or loam that averages less than 18 percent clay and less than 15 percent carbonates.

Substratum is a fine sandy loam or gravelly fine sandy loam with less than 15 percent gravel and with less than 40 percent calcium carbonate. Some layers high in lime or with caliche fragments may occur at depths of 20 to 30 inches.

These soils, if unprotected by plant cover and organic residue, become wind blown and low hummocks are formed.

Minimum and maximum values listed below represent the characteristic soils for this site.

Characteristic soils are:

Maljamar

Berino

Parjarito

Palomas

Wink

Pyote

Table 4. Representative soil features

| Surface texture | (1) Fine sand(2) Fine sandy loam(3) Loamy fine sand |
|----------------------|---|
| Family particle size | (1) Sandy |
| Drainage class | Well drained to somewhat excessively drained |
| Permeability class | Moderate to moderately rapid |

| Soil depth | 40–72 in |
|---|--------------|
| Surface fragment cover <=3" | 0–10% |
| Surface fragment cover >3" | 0% |
| Available water capacity (0-40in) | 5–7 in |
| Calcium carbonate equivalent (0-40in) | 3–40% |
| Electrical conductivity (0-40in) | 2–4 mmhos/cm |
| Sodium adsorption ratio (0-40in) | 0–2 |
| Soil reaction (1:1 water) (0-40in) | 6.6–8.4 |
| Subsurface fragment volume <=3" (Depth not specified) | 4–12% |
| Subsurface fragment volume >3" (Depth not specified) | 0% |

Ecological dynamics

Overview

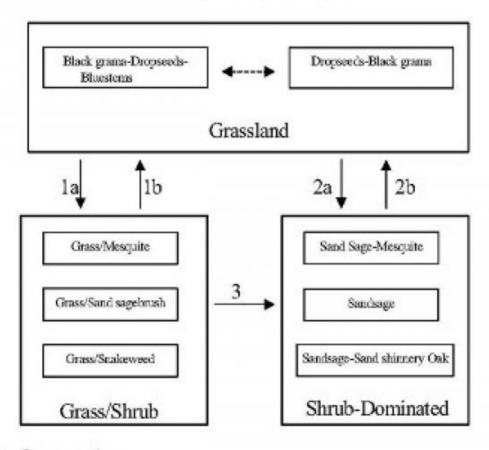
The Loamy Sand site intergrades with the Deep Sand and Sandy sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured (sandy loam and fine sandy loam) surfaces. Although Loamy Sand and Deep Sand sites have similar surface textures, the depth to a textural change is different—Loamy Sand sub-surface textures typically increase in clay at approximately 20 to 30 inches, and Deep Sand sites not until around 40 inches.

The historic plant community of Loamy Sand sites is dominated by black grama (*Bouteloua eriopoda*), dropseeds (*Sporobolus flexuosus*, *S. contractus*, *S. cryptandrus*), and bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), with scattered shinnery oak (*Quercus havardii*) and sand sage (*Artemisia filifolia*). Perennial and annual forb abundance and distribution are dependent on precipitation. Litter and to a lesser extent, bare ground, are a significant proportion of ground cover while grasses compose the remainder. Decreases in black grama indicate a transition to either a grass/shrub or shrub-dominated state. The grass/shrub state is composed of grasses/honey mesquite (*Prosopis glandulosa*), grasses/broom snakeweed (*Gutierrezia sarothrae*), or grasses/sand sage. The shrub-dominated state occurs after a severe loss of grass cover and a prevalence of sand sage with secondary shinnery oak and mesquite. Heavy grazing intensity and/or drought are influential drivers in decreasing black grama and bluestems and subsequently increasing shrub cover, erosion, and bare patches. Historical fire suppression also encourages shrub pervasiveness and a competitive advantage over grass species (McPherson 1995). Brush and grazing management, however, may reverse grass/shrub and shrub-dominated states toward the grassland-dominated historic plant community.

State and transition model

Plant Communities and Transitional Pathways (diagram):

MLRA-42, SD-3, Loamy Sand



- 1a. Drought, over grazing, fire suppression.
- 1b. Brush control, prescribed grazing
- 2.a Severe loss of grass cover, fire suppression, erosion.
- 2b. Brush control, seeding, prescribed grazing.
- Continued loss of grass cover, erosion.

State 1 Historic Climax Plant Community

Community 1.1 Historic Climax Plant Community

Grassland: The historic plant community is a uniformly distributed grassland dominated by black grama, dropseeds, and bluestems. Sand sage and shinnery oak are evenly dispersed throughout the grassland due to the coarse soil

surface texture. Perennial and annual forbs are common but their abundance and distribution are reflective of precipitation. Bluestems initially, followed by black grama, decrease with drought and heavy grazing intensity. Historical fire frequency is unknown but likely occurred enough to remove small shrubs to the competitive advantage of grass species. Fire suppression, drought conditions, and excessive grazing drive most grass species out of competition with shrub species. Diagnosis: Grassland dominated by black grama, dropseeds, and bluestems. Shrubs, such as sand sage, shinnery oak, and mesquite are dispersed throughout the grassland. Forbs are present and populations fluctuate with precipitation variability.

Table 5. Annual production by plant type

| Plant Type | Low (Lb/Acre) | Representative Value (Lb/Acre) | High (Lb/Acre) |
|-----------------|------------------|-----------------------------------|-------------------|
| Grass/Grasslike | 442 | 833 | 1224 |
| Forb | 110 | 208 | 306 |
| Shrub/Vine | 98 | 184 | 270 |
| Total | 650 | 1225 | 1800 |

Table 6. Ground cover

| Tree foliar cover | 0% | | | | |
|-----------------------------------|-----|--|--|--|--|
| Shrub/vine/liana foliar cover | 0% | | | | |
| Grass/grasslike foliar cover | | | | | |
| Forb foliar cover | | | | | |
| Non-vascular plants | 0% | | | | |
| Biological crusts | | | | | |
| Litter | 50% | | | | |
| Surface fragments >0.25" and <=3" | | | | | |
| Surface fragments >3" | 0% | | | | |
| Bedrock | 0% | | | | |
| Water | 0% | | | | |
| Bare ground | 22% | | | | |

Figure 5. Plant community growth curve (percent production by month). NM2803, R042XC003NM-Loamy Sand-HCPC. SD-3 Loamy Sand - Warm season plant community .

| Jai | ı Fe | eb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec |
|-----|------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | 0 | | 3 | 5 | 10 | 10 | 25 | 30 | 12 | 5 | 0 | 0 |

State 2
Grass/Shrub

Community 2.1 Grass/Shrub





*Black grams/Mesquite community, with some dropseeds, threeours, and scattered sand shirnery oak *Oracs cover law to moderate

Grass/Shrub State: The grass/shrub state is dominated by communities of grasses/mesquite, grasses/snakeweed, or grasses/sand sage. Decreases in black grama and bluestem species lead to an increase in bare patches and mesquite which further competes with grass species. An increase of dropseeds and threeawns occurs. Grass distribution becomes more patchy with an absence or severe decrease in black grama and bluestems. Mesquite provides nitrogen and soil organic matter to co-dominant grasses (Ansley and Jacoby 1998, Ansley et al. 1998). Mesquite mortality when exposed to fire is low due to aggressive resprouting abilities. Herbicide application combined with subsequent prescribed fire may be more effective in mesquite reduction (Britton and Wright 1971). Diagnosis: This state is dominated by an increased abundance of communities including grass/mesquite, grass/snakeweed, or grass/sand sage. Dropseeds and threeawns have a patchy distribution. Transition to Grass/Shrub State (1a): The historic plant community begins to shift toward the grass/shrub state as drivers such as drought, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by a decrease in black grama with a subsequent increase of dropseeds, threeawns, mesquite, and snakeweed. Snakeweed has been documented to outcompete black grama especially under conditions of fire suppression and drought (McDaniel et al. 1984). Key indicators of approach to transition: • Loss of black grama cover • Surface soil erosion • Bare patch expansion • Increased dropseed/threeawn and mesquite, snakeweed, or sand sage abundances Transition to Historic Plant Community (1b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community.

State 3 Shrub Dominated

Community 3.1 Shrub Dominated

Shrub-Dominated State: The shrub-dominated state results from a severe loss of grass cover. This state's primary species is sand sage. Shinnery oak and mesquite also occur; however, grass cover is limited to intershrub distribution. Sand sage stabilizes light sandy soils from wind erosion, which enhances protected grass/forb cover (Davis and Bonham 1979). However, shinnery oak also responds to the sandy soils with dense stands due to an

aggressive rhizome system. Shinnery oak's extensive root system promotes competitive exclusion of grasses and forbs. Sand sage, shinnery oak, and mesquite can be controlled with herbicide (Herbel et al. 1979, Pettit 1986). Transition to Shrub-Dominated (2a): Severe loss of grass species with increased erosion and fire suppression will result in a transition to a shrub-dominated state with sand sage, Shin oak, and honey mesquite directly from the grassland-dominated state. Key indicators of approach to transition: • Severe loss of grass species cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite abundance Transition to Historic Plant Community (2b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community. In addition, seeding with native grass species will augment the transition to a grassland-dominated state. Transition to Shrub-Dominated (3): If the grass/shrub site continues to lose grass cover with soil erosion, the site will transition to a shrub-dominated state with sand sage, shinnery oak, and honey mesquite. Key indicators of approach to transition: • Continual loss of dropseeds/threeawns cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite/dropseed/threeawn and mesquite/snakeweed abundance

Additional community tables

| Group | Common Name | Symbol | Scientific Name | Annual Production (Lb/Acre) | Foliar Cover |
|-------|-------------------------|-------------------|---------------------------|--------------------------------|--------------|
| Grass | /Grasslike | | | | |
| 1 | Warm Season | | | 61–123 | |
| | little bluestem | SCSC | Schizachyrium scoparium | 61–123 | _ |
| 2 | Warm Season | • | -1 | 37–61 | |
| | sand bluestem | ANHA | Andropogon hallii | 37–61 | _ |
| 3 | Warm Season | • | | 37–61 | |
| | cane bluestem | BOBA3 | Bothriochloa barbinodis | 37–61 | _ |
| | silver bluestem | BOSA | Bothriochloa saccharoides | 37–61 | _ |
| 4 | Warm Season | <u>.</u> | • | 123–184 | |
| | black grama | BOER4 | Bouteloua eriopoda | 123–184 | _ |
| | bush muhly | MUPO2 | Muhlenbergia porteri | 123–184 | _ |
| 5 | Warm Season | <u>.</u> | • | 123–184 | |
| | thin paspalum | Paspalum setaceum | 123–184 | _ | |
| | plains bristlegrass | SEVU2 | Setaria vulpiseta | 123–184 | _ |
| | fringed signalgrass | URCI | Urochloa ciliatissima | 123–184 | _ |
| 6 | Warm Season | 123–184 | | | |
| | spike dropseed | SPCO4 | Sporobolus contractus | 123–184 | _ |
| | sand dropseed | SPCR | Sporobolus cryptandrus | 123–184 | _ |
| | mesa dropseed | SPFL2 | Sporobolus flexuosus | 123–184 | _ |
| 7 | Warm Season | | | 61–123 | |
| | hooded windmill grass | CHCU2 | Chloris cucullata | 61–123 | _ |
| | Arizona cottontop | DICA8 | Digitaria californica | 61–123 | _ |
| 9 | Other Perennial Grasses | | | 37–61 | |
| | Grass, perennial | 2GP | Grass, perennial | 37–61 | _ |
| Shrub | /Vine | • | | • | |
| 8 | Warm Season | | | 37–61 | |
| | New Mexico feathergrass | HENE5 | Hesperostipa neomexicana | 37–61 | _ |
| | giant dropseed | SPGI | Sporobolus giganteus | 37–61 | _ |
| 10 | Shrub | • | • | 61–123 | |

| 1 | sand sagebrush | ARFI2 | Artemisia filifolia | 61–123 | - |
|------|---|--------|---|--------|---|
| | Havard oak | QUHA3 | Quercus havardii | 61–123 | _ |
| 11 | Shrub | 34–61 | | | |
| | fourwing saltbush | ATCA2 | Atriplex canescens | 37–61 | _ |
| | featherplume | DAFO | Dalea formosa | 37–61 | _ |
| 12 | Shrub | 37–61 | | | |
| | jointfir | EPHED | Ephedra | 37–61 | _ |
| | littleleaf ratany | KRER | Krameria erecta | 37–61 | _ |
| 13 | Other Shrubs | 37–61 | | | |
| | Shrub (>.5m) | 2SHRUB | Shrub (>.5m) | 37–61 | _ |
| Forb | | | | | |
| 14 | 4 Forb | | | 61–123 | |
| | leatherweed | CRPOP | Croton pottsii var. pottsii | 61–123 | _ |
| | Indian blanket | GAPU | Gaillardia pulchella | 61–123 | _ |
| | globemallow | SPHAE | Sphaeralcea | 61–123 | _ |
| 15 | Forb | | | 12–37 | |
| | woolly groundsel | PACA15 | Packera cana | 12–37 | _ |
| 16 | Forb | | | 61–123 | |
| | touristplant | DIWI2 | Dimorphocarpa wislizeni | 61–123 | _ |
| | woolly plantain | PLPA2 | Plantago patagonica | 61–123 | _ |
| 17 | Other Forbs | | | 37–61 | |
| | Forb (herbaceous, not grass nor grass-like) | 2FORB | Forb (herbaceous, not grass nor grass-like) | 37–61 | _ |

Animal community

This Ecological Site provides habitat which supports a resident animal community that is characterized by pronghorn antelope, desert cottontail, spotted ground squirrel, black-tailed prairie dog, yellow faced pocket gopher, Ord's kangaroo rat, northern grasshopper mouse, southern plains woodrat, badger, roadrunner, meadowlark, burrowing owl, white necked raven, lesser prairie chicken, morning dove, scaled quail, Harris hawk, side blotched lizard, marbled whiptail, Texas horned lizard, western diamondback rattlesnake, dusty hognose snake and ornate box turtle.

Where mesquite has invaded, most resident birds and scissor-tailed flycatcher, morning dove and Swainson's hawk, nest. Vesper and grasshopper sparrows utilize the site during migration.

Hydrological functions

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups.

Hydrologic Interpretations

Soil Series Hydrologic Group

Berino B

Kinco A

Maljamar B

Pajarito B

Palomas B

Wink B

Pyote A

Recreational uses

This site offers recreation potential for hiking, borseback riding, nature observation, photography and hunting. During years of abundant spring moisture, this site displays a colorful array of wildflowers during May and June.

Wood products

This site has no potential for wood products.

Other products

This site is suitable for grazing by all kinds and classes of livestock at any time of year. In cases where this site has been invaded by brush species it is especially suited for goats. Mismanagement of this site will cause a decrease in species such as the bluestems, blsck grama, bush muhly, plains bristlegrass, New Mexico feathergrass, Arizona cottontop and fourwing saltbush. A corresponding increase in the dropseeds, windmill grass, fall witchgrass, silver bluestem, sand sagebrush, shinery oak and ephedra will occur. This will also cause an increase in bare ground which will increase soil erodibility. This site will respond well to a system of management that rotates the season of use.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month Similarity Index Ac/AUM 100 - 762.3 - 3.5 75 - 513.0 - 4.5 50 - 264.6 - 9.0 25 - 09.1 +

Inventory data references

Data collection for this site was done in conjunction with the progressive soil surveys within the Southern Desertic Basins, Plains and Mountains, Major Land Resource Areas of New Mexico. This site has been mapped and correlated with soils in the following soil surveys. Eddy County, Lea County, and Chaves County.

Other references

Literature Cited:

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Britton, Carlton M.; Wright, Henry A. 1971. Correlation of weather and fuel variables to mesquite damage by fire. Journal of Range Management 24:136-141.

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Herbel, C. H, Steger, R, Gould, W. L. 1974. Managing semidesert ranges of the Southwest Circular 456. Las Cruces, NM: New Mexico State University, Cooperative Extension Service. 48 p.

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McPherson, Guy R. 1995. The role of fire in the desert grasslands. In: McClaran, Mitchel P.; Van Devender, Thomas R., eds. The desert grassland. Tucson, AZ: The University of Arizona Press: 130-151.

Pettit, Russell D. 1986. Sand shinnery oak: control and management. Management Note 8. Lubbock, TX: Texas Tech University, College of Agricultural Sciences, Department of Range and Wildlife Management. 5 p.

Contributors

Don Sylvester Quinn Hodgson

Rangeland health reference sheet

Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative of an assessment location must be known prior to applying the protocol and must be verified based on soils and climate. Current plant community cannot be used to identify the ecological site.

| Author(s)/participant(s) | |
|---|-------------------|
| Contact for lead author | |
| Date | |
| Approved by | |
| Approval date | |
| Composition (Indicators 10 and 12) based on | Annual Production |

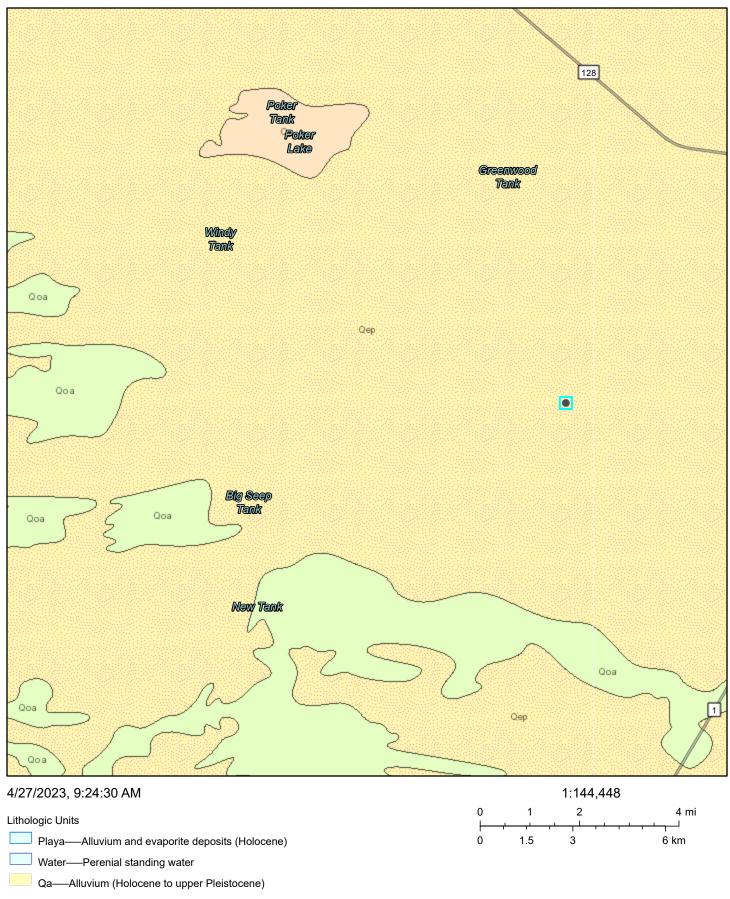
Indicators

| | indicators | | |
|----|---|--|--|
| 1. | Number and extent of rills: | | |
| 2. | Presence of water flow patterns: | | |
| 3. | Number and height of erosional pedestals or terracettes: | | |
| 4. | Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground): | | |
| 5. | Number of gullies and erosion associated with gullies: | | |
| 6. | Extent of wind scoured, blowouts and/or depositional areas: | | |

| 7. | Amount of litter movement (describe size and distance expected to travel): | | | | |
|-----|--|--|--|--|--|
| 8. | Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values): | | | | |
| 9. | Soil surface structure and SOM content (include type of structure and A-horizon color and thickness): | | | | |
| 10. | Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff: | | | | |
| 11. | 11. Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site): | | | | |
| 12. | Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to): | | | | |
| | Dominant: | | | | |
| | Sub-dominant: | | | | |
| | Other: | | | | |
| | Additional: | | | | |
| 13. | Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence): | | | | |
| 14. | Average percent litter cover (%) and depth (in): | | | | |
| 15. | Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production): | | | | |
| 16. | Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site: | | | | |

17. Perennial plant reproductive capability:

Cotton Draw Unit 1-12 CTB Geology



Earthstar Geographics, Texas Parks & Wildlife, CONANP, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, NMBGMR

APPENDIX B – Daily Field Report(s)



| Client: | Devon Energy Corporation | Inspection Date: | 5/9/2023 | | | |
|-------------------------|------------------------------|------------------|-------------------|--|--|--|
| Site Location Name: | Cotton Draw Unit 1-12 CTB | Report Run Date: | 5/10/2023 1:02 AM | | | |
| Client Contact Name: | Wes Matthews | API #: | | | | |
| Client Contact Phone #: | (575) 748-0176 | • | | | | |
| Unique Project ID | | Project Owner: | | | | |
| Project Reference # | | Project Manager: | | | | |
| | Summary of Times | | | | | |
| Arrived at Site | 5/9/2023 7:56 AM | | | | | |
| Departed Site | 5/9/2023 4:01 PM | | | | | |
| Field Notes | | | | | | |

Field Notes

- **8:11** Completed JSA on arrival. On site to continue delineation.
- **8:42** Mapped additional borehole locations and swept ground disturbance areas with magnetic locator.
- 15:56 Advanced boreholes BH23-21 through BH23-31 at previously approximated north edges of release.
- 15:57 Samples from each borehole were collected at 0, 2, and 4 feet bgs (or refusal depth).

Next Steps & Recommendations

1 Continue delineation.



Site Photos





North of west entrance facing southeast.

Viewing Direction: South



South of west entrance facing south. Advanced BH23-29 west of BH23-28.

Viewing Direction: North



South of west entrance facing north. Advanced BH23-30 west of BH23-27.

Viewing Direction: South



South edge of pad facing south. Advanced BH23-31 south of BH23-30.





West of tank battery facing west. Advanced BH23-21 northwest of BH23-17.



North side of pad facing south. Advanced BH23 -22 northwest of BH23-19.



North side of pad facing south. Advanced BH23 -23 north of BH23-20.



North side of pad facing southeast. Advanced BH23-24 north of BH23-23.





North side of pad facing south. Advanced BH23 -25 northwest of BH23-24.



North side of pad facing south. Advanced BH23 -26 west of BH23-25.



South of west entrance facing southeast. Advanced BH23-27 west of BH23-26.



South of west entrance facing south. Advanced BH23-28 north of BH23-27.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:



Devon Energy Inspection Date: 6/22/2023 Client: Corporation Report Run Date: 6/22/2023 10:20 PM Site Location Name: Cotton Draw Unit 1-12 CTB Client Contact Name: Jim Raley API#: 575-748-0176 Client Contact Phone #: Unique Project ID Project Owner: Project Reference # Project Manager: **Summary of Times** Arrived at Site 6/22/2023 8:00 AM

Field Notes

- 14:08 Completed safety paperwork on site
- 14:09 On site to complete delineation efforts
- $\textbf{14:17} \ \ \textbf{Obtained BH23-05, 09, and 61 all at 6' depths to satisfy vertical extent of contamination.}$

All passed strictest NMOCD criteria.

6/22/2023 2:30 PM

- *All hit refusal at 6' depth
- **14:17** Obtained BH23-63, 64, and 65 on north end at 0' and 2' to satisfy horizontal extent of contamination. All samples passed strictest NMOCD criteria.
- 14:16 Hydrovac on site to cut 4' "L" shape around BH23-05, 09, and 61 for underground line locate. See pictures.

Next Steps & Recommendations

1 Send samples to lab.

Departed Site



Site Photos





BH23-63 near cattle guard on east side

Viewing Direction: South



BH23-64 near cattle guard on west side

Viewing Direction: East



BH23-65 immediately west of fence for site near cattle guard

Viewing Direction: South



BH23-09







BH23-05

BH23-61



Daily Site Visit Signature

Inspector: Austin Harris



| Client: | Devon Energy Corporation | Inspection Date: | 6/24/2023 |
|-------------------------|------------------------------|------------------|--------------------|
| Site Location Name: | Cotton Draw Unit 1-12 CTB | Report Run Date: | 6/24/2023 10:57 PM |
| Client Contact Name: | Jim Raley | API #: | |
| Client Contact Phone #: | 575-748-0176 | | |
| Unique Project ID | | Project Owner: | |
| Project Reference # | | Project Manager: | |
| | | Summary of | Times |
| Arrived at Site | 6/24/2023 9:15 AM | | |
| Departed Site | 6/24/2023 3:45 PM | | |

- **15:16** Completed safety paperwork on site and conducted initial line sweep with magnetic detector
- 15:16 On site to delineate release between separators on south side of pad
- 15:20 Obtained BH23-66 to 74 all at 0' and 2'.

Took BH23-71 and 72 to 0', 2', and 4' as this was center of release according to sat imagery

Next Steps & Recommendations

Field Notes

1 Continue delineation







BH23-69

BH23-70





BH23-72





BH23-74 on immediate outside fence, within one-call.



Daily Site Visit Signature

Inspector: Austin Harris



Client: **Devon Energy** Inspection Date: 6/26/2023 Corporation Cotton Draw Unit 1-12 Report Run Date: 6/26/2023 10:59 PM Site Location Name: CTB Client Contact Name: Jim Raley API#: 575-748-0176 Client Contact Phone #: Unique Project ID Project Owner: Project Reference # Project Manager: **Summary of Times** Arrived at Site 6/26/2023 9:00 AM 6/26/2023 2:30 PM **Departed Site**

Field Notes

- 14:18 Completed safety paperwork on site and initial line sweep with magnetic locator
- **14:20** On site to complete delineation efforts in south area of pad near separators
- **14:19** Obtained BH23-79 to 84 all at depths of 0' and 2'. BH23-80 went to 4' for vertical delineation purposes.

Next Steps & Recommendations

1 Send all samples to lab. Determine work plan for remediation if needed.



Site Photos



AOI



Viewing Direction: South

Mon Jun 26 11 43 08 MID

Altrode (Odern
Debun Wis 34

Zon Photo - 180' 503W 325 Into Min

When you had not a company to the compan

BH23-79



BH23-81







BH23-82



BH23-83



Daily Site Visit Signature

Inspector: Austin Harris



Devon Energy Client: Inspection Date: Corporation Report Run Date: 2/7/2024 3:25 AM Cotton Draw Unit 1-12 Site Location Name: **CTB** Dale Woodall Client Contact Name: API#: Client Contact Phone #: 405-318-4697 Unique Project ID Project Owner: Project Reference # Project Manager: **Summary of Times** Arrived at Site **Departed Site**

Field Notes

10:48 Arrived on site

10:59 Slightly adjusted to the drilling spot to the south due to 811 call/underground lines

10:59 Began drilling

11:57 Drilling complete

12:04 Depth reach 55ft and was dry

Next Steps & Recommendations

1



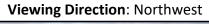
Site Photos



Photo of site



Photo of depth reached





Well is covered



Daily Site Visit Signature

Inspector: Wyatt Wadleigh



Client: **Devon Energy** Inspection Date: Corporation 2/9/2024 8:48 PM Site Location Name: Cotton Draw Unit 1-12 Report Run Date: **CTB** Dale Woodall API#: Client Contact Name: Client Contact Phone #: 405-318-4697 Unique Project ID Project Owner: Project Reference # Project Manager: **Summary of Times** Arrived at Site

Field Notes

10:47 Arrived on site

Departed Site

10:50 Drill reach depth and was dry

10:52 Began plugging the well

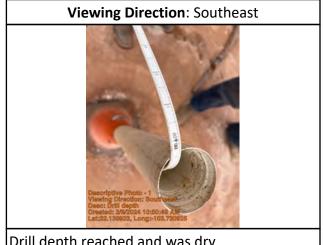
11:10 Well is plugged and covered

Next Steps & Recommendations

1



Site Photos



Drill depth reached and was dry





Daily Site Visit Signature

Inspector: Wyatt Wadleigh



| Client: | Devon Energy Corporation | Inspection Date: | 6/28/2024 |
|-------------------------|------------------------------|------------------|-------------------|
| Site Location Name: | Cotton Draw Unit 1-12 CTB | Report Run Date: | 6/28/2024 9:37 PM |
| Client Contact Name: | Dale Woodall | API #: | |
| Client Contact Phone #: | 405-318-4697 | _ | |
| Unique Project ID | | Project Owner: | |
| Project Reference # | | Project Manager: | |
| | | Summary of | Times |
| Arrived at Site | 6/28/2024 7:50 AM | | |
| Departed Site | 6/28/2024 3:25 PM | | |
| | | Field Net | |

Field Notes

- **9:40** Arrived on site and completed safety assessment for job and documents. Met with Devon contractors, discussing work plan for the day and safety and signing safety documents.
- **11:36** Discussed plans with Devon representatives. Determined backfill location and mobilized to Lealand LLC to collect 5 point composite backfill samples. Contacted Lea Land LLC to in inform of arrival for sampling backfill.
- **13:30** Returned to site and collected field screening samples in excavations.
- **15:25** Field screened samples listed in photos below. Field screened for TPH with Dexsil Petroflag and chlorides with EC meter. All screened below criteria.
- **15:26** Prepared backfill samples for lab.

Next Steps & Recommendations

1 Continue excavation on remaining 3 excavations



Site Photos



Site information placard



Backfill sample 2 at Lea Land



Backfill sample 1 at Lea Land

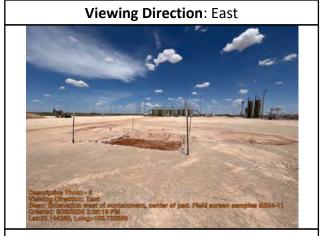


Excavation north of vertical separators. Field screen samples BS24-18 and -21 at 1ft and WS24-06 at 0-1ft





Excavation north of horizontal separators. Field screen samples BS24-17 at 1ft and WS24-05 at 0-1ft



Excavation west of containment, center of pad. Field screen samples BS24-11 and -12 at 1ft and WS24-03 at 0-1ft





Daily Site Visit Signature

Inspector: Stephanie McCartyM



| Client: | Devon Energy Corporation | Inspection Date: | 7/1/2024 |
|-------------------------|------------------------------|------------------|------------------|
| Site Location Name: | Cotton Draw Unit 1-12 CTB | Report Run Date: | 7/2/2024 1:24 AM |
| Client Contact Name: | Dale Woodall | API #: | |
| Client Contact Phone #: | 405-318-4697 | • | |
| Unique Project ID | | Project Owner: | |
| Project Reference # | | Project Manager: | |
| | | Summary of | Times |
| Arrived at Site | 7/1/2024 10:09 AM | | |
| Departed Site | 7/1/2024 5:00 PM | | |
| | | Field Not | es |

- **19:01** Arrived on site and completed safety paperwork. The excavation crew was already working upon arrival.
- **19:02** Tasked with collecting 5-point composite samples to help guide the ongoing excavations.
- 19:11 A hydrovac was on site before I arrived to spot check two areas adjacent to one of the 7 excavations. No buried lines were discovered. A crew was on site to power wash the lined containment on the east portion of the pad and did not affect any part of the excavation.
- 19:10 Nineteen 5-point composite samples were collected in 4 of the 7 excavations. All samples were field screened for chlorides using the EC meter and silver nitrate titration. TPH was screened using a petroflag. All 19 samples met criteria. No samples will be sent to the lab at this time.
- **19:12** All 7 excavations on the pad have been completed. Open pits were roped off for safety reasons.
- 19:13 Backfill for the open pits arrived throughout the day and is located on the north portion of the pad.
- 19:21 Eight 20-cubic yard trucks loads were hauled off site today for a total of 160 cubic yards of soil.

Next Steps & Recommendations

1





Site Photos

Viewing Direction: Southeast



1' bgs excavation located on the southeast portion of the pad. Location of samples BS24-13 through BS24-16 and WS24-04.

Viewing Direction: Northeast



1' bgs excavation located north of the horizontal separators. Location of samples BS24-17 and WS24-05.





1'bgs excavation north of the heater treaters. Location of samples BS24-18 through BS24-21 and WS24-06.

Viewing Direction: South



1' bgs excavation located on the north central portion of the pad. Location of samples BS24-06 through BS24-10 and WS24-02.

Viewing Direction: East



1' bgs excavation on the central portion of the pad. Location of samples BS24-11, BS24-12, and WS24-03.

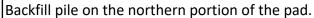
Viewing Direction: Southeast



1'bgs excavation on the northwest corner of the pad. Location of samples BS24-01 through BS24-05 and WS24-01.









Soil pile on the northern end of the pad.



Daily Site Visit Signature

Inspector: John Rewis



Client: **Devon Energy** Inspection Date:

Corporation

Site Location Name: Cotton Draw Unit 1-12

CTB

Dale Woodall Client Contact Name:

Client Contact Phone #: 405-318-4697

Unique Project ID

Project Reference #

7/15/2024

7/29/2024 4:06 PM Report Run Date:

API#:

Project Owner:

Project Manager:

Summary of Times

Arrived at Site 7/15/2024 9:24 AM **Departed Site** 7/15/2024 3:00 PM

Field Notes

14:42 Make up JSA

14:43 Confirmation sampling event

14:43 Field screen samples

Next Steps & Recommendations

1 Jar samples and send off to lab for analysis



Site Photos



CS24-20 and CWS-08



Viewing Direction: North



CS24-15 and CWS-06



CS24-11 to 14 and CWS24-05





CS24-9 to 10 and CWS24-04



CS24-04 to 08 and CWS24-02 to 03



CS24-01 to 03 and CWS24-01



Daily Site Visit Signature

Inspector: Riley Plogger

APPENDIX C – Laboratory Data Report(s) and Chain of Custody Form(s)



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

February 14, 2020

Natalie Gordon
Devon Energy
6488 Seven Rivers Highway
Artesia, NM 88210

TEL: (575) 748-0176

FAX

RE: Cotton Draw Unit 1 12 CTB OrderNo.: 2002448

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 9 sample(s) on 2/11/2020 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2002448

Date Reported: 2/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH20-03 5

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 2/7/2020 12:30:00 PM

 Lab ID:
 2002448-001
 Matrix: SOIL
 Received Date: 2/11/2020 2:55:00 PM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: CLP Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 2/13/2020 10:02:39 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 2/13/2020 10:02:39 AM Surr: DNOP 82.6 55.1-146 %Rec 1 2/13/2020 10:02:39 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 2/12/2020 4:00:59 PM 4.9 mg/Kg 1 Surr: BFB 85.0 66.6-105 %Rec 1 2/12/2020 4:00:59 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 2/12/2020 4:00:59 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 2/12/2020 4:00:59 PM Ethylbenzene ND 0.049 mg/Kg 1 2/12/2020 4:00:59 PM Xylenes, Total ND 0.097 mg/Kg 1 2/12/2020 4:00:59 PM 2/12/2020 4:00:59 PM Surr: 4-Bromofluorobenzene 93.7 80-120 %Rec 1 **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride ND 60 2/12/2020 4:12:35 PM ma/Ka 20

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

Qualifiers:

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

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

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Analytical ReportLab Order **2002448**

Date Reported: 2/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH20-10 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 2/7/2020 1:45:00 PM

 Lab ID:
 2002448-002
 Matrix: SOIL
 Received Date: 2/11/2020 2:55:00 PM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | 1500 | 91 | | mg/Kg | 10 | 2/13/2020 10:11:49 AM |
| Motor Oil Range Organics (MRO) | 1300 | 450 | | mg/Kg | 10 | 2/13/2020 10:11:49 AM |
| Surr: DNOP | 0 | 55.1-146 | S | %Rec | 10 | 2/13/2020 10:11:49 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | | mg/Kg | 1 | 2/12/2020 5:11:40 PM |
| Surr: BFB | 78.8 | 66.6-105 | | %Rec | 1 | 2/12/2020 5:11:40 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | | mg/Kg | 1 | 2/12/2020 5:11:40 PM |
| Toluene | ND | 0.050 | | mg/Kg | 1 | 2/12/2020 5:11:40 PM |
| Ethylbenzene | ND | 0.050 | | mg/Kg | 1 | 2/12/2020 5:11:40 PM |
| Xylenes, Total | ND | 0.10 | | mg/Kg | 1 | 2/12/2020 5:11:40 PM |
| Surr: 4-Bromofluorobenzene | 87.4 | 80-120 | | %Rec | 1 | 2/12/2020 5:11:40 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: CAS |
| Chloride | 480 | 60 | | mg/Kg | 20 | 2/12/2020 4:24:56 PM |

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

Qualifiers:

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

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

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Date Reported: 2/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH20-10 1'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 2/7/2020 1:50:00 PM

 Lab ID:
 2002448-003
 Matrix: SOIL
 Received Date: 2/11/2020 2:55:00 PM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 2/13/2020 10:20:58 AM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 2/13/2020 10:20:58 AM |
| Surr: DNOP | 87.8 | 55.1-146 | %Rec | 1 | 2/13/2020 10:20:58 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 2/12/2020 6:21:58 PM |
| Surr: BFB | 84.5 | 66.6-105 | %Rec | 1 | 2/12/2020 6:21:58 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | mg/Kg | 1 | 2/12/2020 6:21:58 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 2/12/2020 6:21:58 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 2/12/2020 6:21:58 PM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 2/12/2020 6:21:58 PM |
| Surr: 4-Bromofluorobenzene | 93.3 | 80-120 | %Rec | 1 | 2/12/2020 6:21:58 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: CAS |
| Chloride | ND | 60 | mg/Kg | 20 | 2/12/2020 4:37:15 PM |

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

Qualifiers:

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

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

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Date Reported: 2/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH20-12 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 2/7/2020 2:30:00 PM

 Lab ID:
 2002448-004
 Matrix: SOIL
 Received Date: 2/11/2020 2:55:00 PM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | 11 | 8.9 | mg/Kg | 1 | 2/13/2020 10:30:09 AM |
| Motor Oil Range Organics (MRO) | ND | 45 | mg/Kg | 1 | 2/13/2020 10:30:09 AM |
| Surr: DNOP | 87.5 | 55.1-146 | %Rec | 1 | 2/13/2020 10:30:09 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 2/12/2020 6:45:25 PM |
| Surr: BFB | 78.0 | 66.6-105 | %Rec | 1 | 2/12/2020 6:45:25 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | mg/Kg | 1 | 2/12/2020 6:45:25 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 2/12/2020 6:45:25 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 2/12/2020 6:45:25 PM |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 2/12/2020 6:45:25 PM |
| Surr: 4-Bromofluorobenzene | 86.4 | 80-120 | %Rec | 1 | 2/12/2020 6:45:25 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: CAS |
| Chloride | ND | 60 | mg/Kg | 20 | 2/12/2020 4:49:36 PM |

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

Qualifiers:

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

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

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Date Reported: 2/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: SS20-04 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 2/7/2020 10:00:00 AM

 Lab ID:
 2002448-005
 Matrix: SOIL
 Received Date: 2/11/2020 2:55:00 PM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | 31 | 9.1 | mg/Kg | 1 | 2/13/2020 10:39:18 AM |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 2/13/2020 10:39:18 AM |
| Surr: DNOP | 90.7 | 55.1-146 | %Rec | 1 | 2/13/2020 10:39:18 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 2/12/2020 7:08:55 PM |
| Surr: BFB | 81.0 | 66.6-105 | %Rec | 1 | 2/12/2020 7:08:55 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | mg/Kg | 1 | 2/12/2020 7:08:55 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 2/12/2020 7:08:55 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 2/12/2020 7:08:55 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 2/12/2020 7:08:55 PM |
| Surr: 4-Bromofluorobenzene | 90.1 | 80-120 | %Rec | 1 | 2/12/2020 7:08:55 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: CAS |
| Chloride | 430 | 60 | mg/Kg | 20 | 2/12/2020 5:01:57 PM |

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

Qualifiers:

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

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

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Date Reported: 2/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: SS20-02 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 2/7/2020 9:45:00 AM

 Lab ID:
 2002448-006
 Matrix: SOIL
 Received Date: 2/11/2020 2:55:00 PM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|---------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | ANICS | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | 82 | 8.9 | mg/Kg | 1 | 2/13/2020 10:48:31 AM |
| Motor Oil Range Organics (MRO) | 93 | 45 | mg/Kg | 1 | 2/13/2020 10:48:31 AM |
| Surr: DNOP | 96.6 | 55.1-146 | %Rec | 1 | 2/13/2020 10:48:31 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 2/12/2020 9:05:58 PM |
| Surr: BFB | 83.1 | 66.6-105 | %Rec | 1 | 2/12/2020 9:05:58 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | mg/Kg | 1 | 2/12/2020 9:05:58 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 2/12/2020 9:05:58 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 2/12/2020 9:05:58 PM |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 2/12/2020 9:05:58 PM |
| Surr: 4-Bromofluorobenzene | 92.6 | 80-120 | %Rec | 1 | 2/12/2020 9:05:58 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: CAS |
| Chloride | ND | 60 | mg/Kg | 20 | 2/12/2020 5:38:59 PM |

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

Qualifiers:

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

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

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Date Reported: 2/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: SS20-05 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 2/7/2020 10:10:00 AM

 Lab ID:
 2002448-007
 Matrix: SOIL
 Received Date: 2/11/2020 2:55:00 PM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|---------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OF | RGANICS | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | 50 | 9.0 | mg/Kg | 1 | 2/13/2020 10:57:41 AM |
| Motor Oil Range Organics (MRO) | 58 | 45 | mg/Kg | 1 | 2/13/2020 10:57:41 AM |
| Surr: DNOP | 93.8 | 55.1-146 | %Rec | 1 | 2/13/2020 10:57:41 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 2/12/2020 9:29:23 PM |
| Surr: BFB | 79.4 | 66.6-105 | %Rec | 1 | 2/12/2020 9:29:23 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | mg/Kg | 1 | 2/12/2020 9:29:23 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 2/12/2020 9:29:23 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 2/12/2020 9:29:23 PM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 2/12/2020 9:29:23 PM |
| Surr: 4-Bromofluorobenzene | 87.9 | 80-120 | %Rec | 1 | 2/12/2020 9:29:23 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: CJS |
| Chloride | 110 | 60 | mg/Kg | 20 | 2/13/2020 5:48:35 PM |

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

Qualifiers:

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

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

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Date Reported: 2/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: SS20-09 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 2/7/2020 10:30:00 AM

 Lab ID:
 2002448-008
 Matrix: SOIL
 Received Date: 2/11/2020 2:55:00 PM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | 120 | 9.6 | mg/Kg | 1 | 2/13/2020 11:06:51 AM |
| Motor Oil Range Organics (MRO) | 160 | 48 | mg/Kg | 1 | 2/13/2020 11:06:51 AM |
| Surr: DNOP | 113 | 55.1-146 | %Rec | 1 | 2/13/2020 11:06:51 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 2/12/2020 9:52:42 PM |
| Surr: BFB | 79.3 | 66.6-105 | %Rec | 1 | 2/12/2020 9:52:42 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: RAA |
| Benzene | ND | 0.025 | mg/Kg | 1 | 2/12/2020 9:52:42 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 2/12/2020 9:52:42 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 2/12/2020 9:52:42 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 2/12/2020 9:52:42 PM |
| Surr: 4-Bromofluorobenzene | 87.6 | 80-120 | %Rec | 1 | 2/12/2020 9:52:42 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: CJS |
| Chloride | ND | 60 | mg/Kg | 20 | 2/13/2020 6:00:59 PM |

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

Qualifiers:

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

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

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Date Reported: 2/14/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: SS20-10 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 2/7/2020 10:40:00 AM

 Lab ID:
 2002448-009
 Matrix: SOIL
 Received Date: 2/11/2020 2:55:00 PM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | | Analyst: CLP |
| Diesel Range Organics (DRO) | 650 | 99 | | mg/Kg | 10 | 2/13/2020 11:16:00 AM |
| Motor Oil Range Organics (MRO) | 730 | 500 | | mg/Kg | 10 | 2/13/2020 11:16:00 AM |
| Surr: DNOP | 0 | 55.1-146 | S | %Rec | 10 | 2/13/2020 11:16:00 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: RAA |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 2/12/2020 10:16:02 PM |
| Surr: BFB | 82.6 | 66.6-105 | | %Rec | 1 | 2/12/2020 10:16:02 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: RAA |
| Benzene | ND | 0.024 | | mg/Kg | 1 | 2/12/2020 10:16:02 PM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 2/12/2020 10:16:02 PM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 2/12/2020 10:16:02 PM |
| Xylenes, Total | ND | 0.095 | | mg/Kg | 1 | 2/12/2020 10:16:02 PM |
| Surr: 4-Bromofluorobenzene | 91.8 | 80-120 | | %Rec | 1 | 2/12/2020 10:16:02 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: CJS |
| Chloride | ND | 60 | | mg/Kg | 20 | 2/13/2020 6:38:13 PM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2002448**

14-Feb-20

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

Sample ID: MB-50417 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 50417 RunNo: 66519

Prep Date: 2/12/2020 Analysis Date: 2/12/2020 SeqNo: 2285869 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-50417 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 50417 RunNo: 66519

Prep Date: 2/12/2020 Analysis Date: 2/12/2020 SeqNo: 2285870 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.0 90 110

Sample ID: MB-50442 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 50442 RunNo: 66549

Prep Date: 2/13/2020 Analysis Date: 2/13/2020 SeqNo: 2287113 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-50442 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 50442 RunNo: 66549

Prep Date: 2/13/2020 Analysis Date: 2/13/2020 SeqNo: 2287114 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.0 90 110

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2002448** 14-Feb-20

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

Sample ID: MB-50407 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 50407 RunNo: 66516

Prep Date: 2/12/2020 Analysis Date: 2/13/2020 SeqNo: 2286218 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 8.8 10.00 87.7 55.1 146

Sample ID: LCS-50407 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 50407 RunNo: 66516

Prep Date: 2/12/2020 Analysis Date: 2/13/2020 SeqNo: 2286219 Units: mg/Kg

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

 Diesel Range Organics (DRO)
 51
 10
 50.00
 0
 102
 70
 130

 Surr: DNOP
 4.6
 5.000
 92.3
 55.1
 146

Qualifiers:

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

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

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2002448 14-Feb-20**

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

Sample ID: 2002448-002ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BH20-10 0'** Batch ID: **50397** RunNo: **66521**

Prep Date: 2/11/2020 Analysis Date: 2/12/2020 SeqNo: 2285985 Units: mg/Kg

PQL SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Analyte Result %REC LowLimit Qual Gasoline Range Organics (GRO) 22 5.0 24.95 Λ 89.2 69.1 142

Surr: BFB 890 998.0 89.2 66.6 105

Sample ID: 2002448-002amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BH20-10 0'** Batch ID: **50397** RunNo: **66521**

Prep Date: 2/11/2020 Analysis Date: 2/12/2020 SeqNo: 2285986 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 24.93 O 88.3 69.1 142 1.05 20 Surr: BFB 930 997.0 92.9 66.6 105 0

Sample ID: Ics-50397 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 50397 RunNo: 66521

Prep Date: 2/11/2020 Analysis Date: 2/12/2020 SeqNo: 2286000 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Gasoline Range Organics (GRO) 22 5.0 25.00 0 87.8 80 120 Surr: BFB 930 1000 93.3 66.6 105

Sample ID: mb-50397 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 50397 RunNo: 66521

Prep Date: 2/11/2020 Analysis Date: 2/12/2020 SeqNo: 2286001 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 830 1000 83.4 66.6 105

Qualifiers:

* Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 12 of 13

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2002448**

14-Feb-20

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: 2002448-001ams | SampT | ype: MS | 3 | Tes | | | | | | | | | |
|----------------------------|----------------------|-------------------|---------|---------------------|----------|----------|-------------|------|----------|------|--|--|--|
| Client ID: BH20-03 5' | Batch | n ID: 50 3 | 397 | RunNo: 66521 | | | | | | | | | |
| Prep Date: 2/11/2020 | Analysis D | oate: 2/ | 12/2020 | S | SeqNo: 2 | 286011 | Units: mg/K | ίg | | | | | |
| Analyte | Result PQL SPK value | | | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | | |
| Benzene | 1.0 | 0.025 | 0.9980 | 0.01576 | 102 | 78.5 | 119 | | | | | | |
| Toluene | 1.1 | 0.050 | 0.9980 | 0 | 107 | 75.7 | 123 | | | | | | |
| Ethylbenzene | 1.1 | 0.050 | 0.9980 | 0 | 109 | 74.3 | 126 | | | | | | |
| Xylenes, Total | 3.3 0.10 2.994 | | | 0 111 72.9 | | | 130 | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.93 | | 0.9980 | | 80 | 120 | | | | | | | |

| Sample ID: 2002448-001amsd | I SampT | ype: MS | e: MSD TestCode: EPA Method 8021B: Volatiles | | | | | | | | | | |
|----------------------------|------------|-----------------|--|---------------------|----------|----------|-------------|------|----------|------|--|--|--|
| Client ID: BH20-03 5' | Batch | 1D: 50 3 | 397 | RunNo: 66521 | | | | | | | | | |
| Prep Date: 2/11/2020 | Analysis D | ate: 2/ | 12/2020 | S | SeqNo: 2 | 286012 | Units: mg/K | (g | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | | |
| Benzene | 0.97 | 0.025 | 0.9911 | 0.01576 | 96.0 | 78.5 | 119 | 6.43 | 20 | | | | |
| Toluene | 1.0 | 0.050 | 0.9911 | 0 | 101 | 75.7 | 123 | 6.29 | 20 | | | | |
| Ethylbenzene | 1.0 0.050 | | 0.9911 | 0 | 105 74.3 | | 126 | 5.07 | 20 | | | | |
| Xylenes, Total | 3.1 | 0.099 | 2.973 | 0 106 72.9 | | 72.9 | .9 130 5.88 | | 20 | | | | |
| Surr: 4-Bromofluorobenzene | 0.90 | | 0.9911 | | 91.1 | 80 | 120 | 0 | 0 | | | | |

| Sample ID: LCS-50397 | SampT | ype: LC | S | Tes | | | | | | |
|----------------------------|----------------|-------------------|-----------|-------------|----------|----------|-------------|------|----------|------|
| Client ID: LCSS | Batcl | h ID: 50 : | 397 | F | RunNo: 6 | | | | | |
| Prep Date: 2/11/2020 | Analysis D | Date: 2/ | 12/2020 | S | SeqNo: 2 | 286021 | Units: mg/K | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.90 | 0.025 | 1.000 | 0 | 89.8 | 80 | 120 | | | |
| Toluene | 0.92 | 0.050 | 1.000 | 0 | 92.3 | 80 | 120 | | | |
| Ethylbenzene | 0.94 | 0.050 | 1.000 | 0 | 94.4 | 80 | 120 | | | |
| Xylenes, Total | 2.9 0.10 3.000 | | | 0 95.3 80 | | | 120 | | | |
| Surr: 4-Bromofluorobenzene | 0.95 | | 1.000 | | 95.3 | 80 | 120 | | | |

| Sample ID: mb-50397 | SampT | уре: МЕ | BLK | Tes | | | | | | |
|----------------------------|------------------------|-------------------|-------------|------|----------|-----------|-------------|----------|------|--|
| Client ID: PBS | Batcl | n ID: 50 : | 397 | F | RunNo: 6 | 6521 | | | | |
| Prep Date: 2/11/2020 | Analysis D | Date: 2/ | 12/2020 | S | SeqNo: 2 | 286022 | Units: mg/K | | | |
| Analyte | Result PQL SPK value S | | 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 | 0.91 | | 1.000 | | 91.5 | 80 | 120 | | | |

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: **DEVON ENERGY** Work Order Number: 2002448 RcptNo: 1 Received By: Isaiah Ortiz 2/11/2020 2:55:00 PM Completed By: Isaiah Ortiz 2/11/2020 3:08:12 PM 4 62 hilbo Reviewed By: Chain of Custody Yes 🗸 No 🗌 1. Is Chain of Custody sufficiently complete? Not Present How was the sample delivered? Courier No 🗌 NA 🗌 3. Was an attempt made to cool the samples? Yes 🗸 No 🗆 NA 🗆 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🔽 Yes 🗹 5. Sample(s) in proper container(s)? No 🗌 Yes 🗹 No 🗌 Sufficient sample volume for indicated test(s)? No 🗌 Are samples (except VOA and ONG) properly preserved? Yes 🗸 No 🗹 NA 🗌 Yes 🗌 8. Was preservative added to bottles? No 🗌 NA 🗹 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes 🗌 Yes □ No 🗹 10. Were any sample containers received broken? # of preserved bottles checked Yes 🗸 No 🗌 11. Does paperwork match bottle labels? (≤2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗹 No 🗌 Yes 🗸 No \square 13. Is it clear what analyses were requested? Yes 🗹 Checked by: 14. Were all holding times able to be met? No 🔲 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? No □ Yes 🗌 NA 🔽 Date: Person Notified: 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

Page 1 of 1

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| J | Client: | Ansall | Mailing Address: | Artesia, NM | Phone #: | email or Fax#: | QA/QC Package: | ☐ Standard | Accreditation: | □ NELAC | | | Dafe | 5 | | | | <u> </u> | | > | | | | | | Date: 7 | Date; $\mathcal{H}[\mathcal{O}/\mathcal{U}]$ | |
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 23, 2023

Kent Stallings Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

FAX

RE: Cotton Draw Unit 1 12 CTB OrderNo.: 2305593

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 33 sample(s) on 5/11/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-21 0 '

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 8:45:00 AM

 Lab ID:
 2305593-001
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.7 | mg/Kg | 1 | 5/12/2023 8:29:44 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/12/2023 8:29:44 PM |
| Surr: DNOP | 101 | 69-147 | %Rec | 1 | 5/12/2023 8:29:44 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: CCM |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/16/2023 5:17:00 AM |
| Surr: BFB | 88.0 | 15-244 | %Rec | 1 | 5/16/2023 5:17:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: CCM |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/16/2023 5:17:00 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 5:17:00 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 5:17:00 AM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/16/2023 5:17:00 AM |
| Surr: 4-Bromofluorobenzene | 85.1 | 39.1-146 | %Rec | 1 | 5/16/2023 5:17:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: NAI |
| Chloride | 610 | 60 | mg/Kg | 20 | 5/16/2023 5:48:58 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 42

Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-21 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 8:50:00 AM

 Lab ID:
 2305593-002
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|---------------------------------------|---------------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/12/2023 8:40:39 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/12/2023 8:40:39 PM |
| Surr: DNOP | 87.7 | 69-147 | %Rec | 1 | 5/12/2023 8:40:39 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: CCM |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/16/2023 5:39:00 AM |
| Surr: BFB | 86.0 | 15-244 | %Rec | 1 | 5/16/2023 5:39:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: CCM |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/16/2023 5:39:00 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 5:39:00 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 5:39:00 AM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/16/2023 5:39:00 AM |
| Surr: 4-Bromofluorobenzene | 84.8 | 39.1-146 | %Rec | 1 | 5/16/2023 5:39:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: NAI |
| Chloride | 430 | 60 | mg/Kg | 20 | 5/16/2023 6:01:22 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 42

2305593-003

Lab ID:

Analytical Report Lab Order 2305593

Received Date: 5/11/2023 8:00:00 AM

Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-21 4'

Matrix: SOIL

Project: Cotton Draw Unit 1 12 CTB Collection Date: 5/9/2023 8:55:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 10 mg/Kg 1 5/12/2023 8:51:36 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 5/12/2023 8:51:36 PM Surr: DNOP 87.5 69-147 %Rec 1 5/12/2023 8:51:36 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 5/16/2023 6:01:00 AM 4.8 mg/Kg 1 Surr: BFB 87.4 15-244 %Rec 1 5/16/2023 6:01:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 5/16/2023 6:01:00 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 5/16/2023 6:01:00 AM Ethylbenzene ND 0.048 mg/Kg 1 5/16/2023 6:01:00 AM Xylenes, Total ND 0.096 mg/Kg 1 5/16/2023 6:01:00 AM 5/16/2023 6:01:00 AM Surr: 4-Bromofluorobenzene 83.5 39.1-146 %Rec 1 Analyst: NAI **EPA METHOD 300.0: ANIONS** Chloride ND 60 5/16/2023 10:34:19 PM ma/Ka 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 42

Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-22 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 9:05:00 AM

 Lab ID:
 2305593-004
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/12/2023 9:02:27 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/12/2023 9:02:27 PM |
| Surr: DNOP | 72.5 | 69-147 | %Rec | 1 | 5/12/2023 9:02:27 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: CCM |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/16/2023 6:22:00 AM |
| Surr: BFB | 83.3 | 15-244 | %Rec | 1 | 5/16/2023 6:22:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: CCM |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/16/2023 6:22:00 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 6:22:00 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 6:22:00 AM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 5/16/2023 6:22:00 AM |
| Surr: 4-Bromofluorobenzene | 84.5 | 39.1-146 | %Rec | 1 | 5/16/2023 6:22:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: NAI |
| Chloride | ND | 60 | mg/Kg | 20 | 5/16/2023 10:46:42 PM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-22 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 9:10:00 AM

 Lab ID:
 2305593-005
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 5/12/2023 9:13:21 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/12/2023 9:13:21 PM 69-147 Surr: DNOP 89.8 %Rec 1 5/12/2023 9:13:21 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 5/16/2023 6:44:00 AM 4.7 mg/Kg 1 Surr: BFB 86.2 15-244 %Rec 1 5/16/2023 6:44:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.023 mg/Kg 5/16/2023 6:44:00 AM 1 Toluene ND 0.047 mg/Kg 1 5/16/2023 6:44:00 AM Ethylbenzene ND 0.047 mg/Kg 1 5/16/2023 6:44:00 AM Xylenes, Total ND 0.094 mg/Kg 1 5/16/2023 6:44:00 AM 5/16/2023 6:44:00 AM Surr: 4-Bromofluorobenzene 84.9 39.1-146 %Rec 1 Analyst: NAI **EPA METHOD 300.0: ANIONS** Chloride ND 60 5/16/2023 11:48:45 PM ma/Ka 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-22 3.5

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 9:15:00 AM

 Lab ID:
 2305593-006
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 5/12/2023 9:24:12 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/12/2023 9:24:12 PM 69-147 Surr: DNOP 90.8 %Rec 1 5/12/2023 9:24:12 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 5/16/2023 7:06:00 AM 4.7 mg/Kg 1 Surr: BFB 87.4 15-244 %Rec 1 5/16/2023 7:06:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 mg/Kg 5/16/2023 7:06:00 AM 1 Toluene ND 0.047 mg/Kg 1 5/16/2023 7:06:00 AM Ethylbenzene ND 0.047 mg/Kg 1 5/16/2023 7:06:00 AM Xylenes, Total ND 0.094 mg/Kg 1 5/16/2023 7:06:00 AM 5/16/2023 7:06:00 AM Surr: 4-Bromofluorobenzene 84.6 39.1-146 %Rec 1 Analyst: NAI **EPA METHOD 300.0: ANIONS** Chloride 230 59 5/17/2023 12:01:10 AM ma/Ka 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-23 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 9:25:00 AM

 Lab ID:
 2305593-007
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 10 mg/Kg 1 5/12/2023 9:35:03 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 5/12/2023 9:35:03 PM Surr: DNOP 83.9 69-147 %Rec 1 5/12/2023 9:35:03 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 5/16/2023 1:05:00 PM 4.9 mg/Kg 1 Surr: BFB 87.1 15-244 %Rec 1 5/16/2023 1:05:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 5/16/2023 1:05:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/16/2023 1:05:00 PM Ethylbenzene ND 0.049 mg/Kg 1 5/16/2023 1:05:00 PM Xylenes, Total ND 0.098 mg/Kg 1 5/16/2023 1:05:00 PM 5/16/2023 1:05:00 PM Surr: 4-Bromofluorobenzene 86.0 39.1-146 %Rec 1 Analyst: NAI **EPA METHOD 300.0: ANIONS** Chloride ND 59 5/17/2023 12:13:34 AM ma/Ka 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-23 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 9:30:00 AM

 Lab ID:
 2305593-008
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|---------------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OF | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/12/2023 9:45:55 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/12/2023 9:45:55 PM |
| Surr: DNOP | 92.2 | 69-147 | %Rec | 1 | 5/12/2023 9:45:55 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/16/2023 1:27:00 PM |
| Surr: BFB | 87.0 | 15-244 | %Rec | 1 | 5/16/2023 1:27:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/16/2023 1:27:00 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/16/2023 1:27:00 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/16/2023 1:27:00 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/16/2023 1:27:00 PM |
| Surr: 4-Bromofluorobenzene | 86.2 | 39.1-146 | %Rec | 1 | 5/16/2023 1:27:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: NAI |
| Chloride | ND | 60 | mg/Kg | 20 | 5/17/2023 12:50:48 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-23 3.5'

Project: Cotton Draw Unit 1 12 CTB Collection Date: 5/9/2023 9:35:00 AM

Lab ID: 2305593-009 **Matrix:** SOIL **Received Date:** 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/12/2023 10:07:35 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/12/2023 10:07:35 PM |
| Surr: DNOP | 85.8 | 69-147 | %Rec | 1 | 5/12/2023 10:07:35 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/16/2023 1:49:00 PM |
| Surr: BFB | 88.6 | 15-244 | %Rec | 1 | 5/16/2023 1:49:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/16/2023 1:49:00 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/16/2023 1:49:00 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/16/2023 1:49:00 PM |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 5/16/2023 1:49:00 PM |
| Surr: 4-Bromofluorobenzene | 87.5 | 39.1-146 | %Rec | 1 | 5/16/2023 1:49:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: NAI |
| Chloride | 960 | 60 | mg/Kg | 20 | 5/17/2023 1:03:12 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2305593-010

Lab ID:

Benzene

Toluene

Analytical Report Lab Order 2305593

Received Date: 5/11/2023 8:00:00 AM

Date Reported: 5/23/2023

5/16/2023 2:10:00 PM

5/16/2023 2:10:00 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-24 0'

Project: Cotton Draw Unit 1 12 CTB Collection Date: 5/9/2023 9:50:00 AM

Matrix: SOIL

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 10 mg/Kg 1 5/12/2023 10:18:27 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 5/12/2023 10:18:27 PM Surr: DNOP 80.5 69-147 %Rec 1 5/12/2023 10:18:27 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 5/16/2023 2:10:00 PM 4.7 mg/Kg 1 Surr: BFB 91.9 15-244 %Rec 1 5/16/2023 2:10:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN

Ethylbenzene ND 0.047 mg/Kg 1 5/16/2023 2:10:00 PM Xylenes, Total ND 0.094 mg/Kg 1 5/16/2023 2:10:00 PM 5/16/2023 2:10:00 PM Surr: 4-Bromofluorobenzene 87.2 39.1-146 %Rec 1 Analyst: SNS **EPA METHOD 300.0: ANIONS** Chloride ND 60 5/16/2023 4:41:55 PM ma/Ka 20

ND

ND

0.024

0.047

mg/Kg

mg/Kg

1

1

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-24 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 9:55:00 AM

 Lab ID:
 2305593-011
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 5/12/2023 10:29:19 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 5/12/2023 10:29:19 PM Surr: DNOP 87.6 69-147 %Rec 1 5/12/2023 10:29:19 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 5/16/2023 2:32:00 PM 4.7 mg/Kg 1 Surr: BFB 89.2 15-244 %Rec 1 5/16/2023 2:32:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 5/16/2023 2:32:00 PM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 5/16/2023 2:32:00 PM Ethylbenzene ND 0.047 mg/Kg 1 5/16/2023 2:32:00 PM Xylenes, Total ND 0.095 mg/Kg 1 5/16/2023 2:32:00 PM Surr: 4-Bromofluorobenzene 85.7 39.1-146 %Rec 1 5/16/2023 2:32:00 PM Analyst: SNS **EPA METHOD 300.0: ANIONS** Chloride ND 59 5/16/2023 5:18:57 PM ma/Ka 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-24 3'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 10:00:00 AM

 Lab ID:
 2305593-012
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|---------------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/12/2023 10:40:11 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/12/2023 10:40:11 PM |
| Surr: DNOP | 82.5 | 69-147 | %Rec | 1 | 5/12/2023 10:40:11 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/16/2023 2:54:00 PM |
| Surr: BFB | 89.6 | 15-244 | %Rec | 1 | 5/16/2023 2:54:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/16/2023 2:54:00 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/16/2023 2:54:00 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/16/2023 2:54:00 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/16/2023 2:54:00 PM |
| Surr: 4-Bromofluorobenzene | 86.8 | 39.1-146 | %Rec | 1 | 5/16/2023 2:54:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 200 | 60 | mg/Kg | 20 | 5/16/2023 5:56:00 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-25 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 10:10:00 AM

 Lab ID:
 2305593-013
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/12/2023 10:51:01 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/12/2023 10:51:01 PM |
| Surr: DNOP | 110 | 69-147 | %Rec | 1 | 5/12/2023 10:51:01 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/16/2023 3:15:00 PM |
| Surr: BFB | 88.1 | 15-244 | %Rec | 1 | 5/16/2023 3:15:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/16/2023 3:15:00 PM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/16/2023 3:15:00 PM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/16/2023 3:15:00 PM |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 5/16/2023 3:15:00 PM |
| Surr: 4-Bromofluorobenzene | 85.6 | 39.1-146 | %Rec | 1 | 5/16/2023 3:15:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/16/2023 6:08:21 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-25 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 10:15:00 AM

 Lab ID:
 2305593-014
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 5/12/2023 11:01:50 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/12/2023 11:01:50 PM |
| Surr: DNOP | 85.4 | 69-147 | %Rec | 1 | 5/12/2023 11:01:50 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/16/2023 3:44:00 PM |
| Surr: BFB | 85.0 | 15-244 | %Rec | 1 | 5/16/2023 3:44:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.023 | mg/Kg | 1 | 5/16/2023 3:44:00 PM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/16/2023 3:44:00 PM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/16/2023 3:44:00 PM |
| Xylenes, Total | ND | 0.093 | mg/Kg | 1 | 5/16/2023 3:44:00 PM |
| Surr: 4-Bromofluorobenzene | 84.6 | 39.1-146 | %Rec | 1 | 5/16/2023 3:44:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/16/2023 6:45:23 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- QL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-25 3'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 10:20:00 AM

 Lab ID:
 2305593-015
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/12/2023 11:12:42 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/12/2023 11:12:42 PM |
| Surr: DNOP | 85.2 | 69-147 | %Rec | 1 | 5/12/2023 11:12:42 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/16/2023 4:05:00 PM |
| Surr: BFB | 86.6 | 15-244 | %Rec | 1 | 5/16/2023 4:05:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/16/2023 4:05:00 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/16/2023 4:05:00 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/16/2023 4:05:00 PM |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 5/16/2023 4:05:00 PM |
| Surr: 4-Bromofluorobenzene | 86.1 | 39.1-146 | %Rec | 1 | 5/16/2023 4:05:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/16/2023 6:57:44 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-26 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 10:45:00 AM

 Lab ID:
 2305593-016
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|---------------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 5/12/2023 11:23:32 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/12/2023 11:23:32 PM |
| Surr: DNOP | 84.1 | 69-147 | %Rec | 1 | 5/12/2023 11:23:32 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/16/2023 4:27:00 PM |
| Surr: BFB | 93.7 | 15-244 | %Rec | 1 | 5/16/2023 4:27:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/16/2023 4:27:00 PM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/16/2023 4:27:00 PM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/16/2023 4:27:00 PM |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 5/16/2023 4:27:00 PM |
| Surr: 4-Bromofluorobenzene | 85.6 | 39.1-146 | %Rec | 1 | 5/16/2023 4:27:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/16/2023 7:10:05 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-26 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 10:50:00 AM

 Lab ID:
 2305593-017
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 5/16/2023 10:38:11 AM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/16/2023 10:38:11 AM |
| Surr: DNOP | 97.6 | 69-147 | %Rec | 1 | 5/16/2023 10:38:11 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: CCM |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/15/2023 11:10:00 PM |
| Surr: BFB | 82.3 | 15-244 | %Rec | 1 | 5/15/2023 11:10:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: CCM |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/15/2023 11:10:00 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/15/2023 11:10:00 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/15/2023 11:10:00 PM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 5/15/2023 11:10:00 PM |
| Surr: 4-Bromofluorobenzene | 83.9 | 39.1-146 | %Rec | 1 | 5/15/2023 11:10:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 220 | 61 | mg/Kg | 20 | 5/16/2023 7:22:26 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-26 3'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 10:55:00 AM

 Lab ID:
 2305593-018
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 5/16/2023 10:48:46 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/16/2023 10:48:46 AM |
| Surr: DNOP | 96.0 | 69-147 | %Rec | 1 | 5/16/2023 10:48:46 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: CCM |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/15/2023 11:32:00 PM |
| Surr: BFB | 86.3 | 15-244 | %Rec | 1 | 5/15/2023 11:32:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: CCM |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/15/2023 11:32:00 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/15/2023 11:32:00 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/15/2023 11:32:00 PM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/15/2023 11:32:00 PM |
| Surr: 4-Bromofluorobenzene | 84.0 | 39.1-146 | %Rec | 1 | 5/15/2023 11:32:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 1900 | 60 | mg/Kg | 20 | 5/16/2023 7:34:47 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-27 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 11:05:00 AM

 Lab ID:
 2305593-019
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) mg/Kg 3800 99 10 5/16/2023 12:01:23 PM Motor Oil Range Organics (MRO) 2000 500 mg/Kg 10 5/16/2023 12:01:23 PM 69-147 Surr: DNOP 0 S %Rec 10 5/16/2023 12:01:23 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 5/15/2023 11:53:00 PM 4.8 mg/Kg 1 Surr: BFB 85.8 15-244 %Rec 1 5/15/2023 11:53:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 mg/Kg 5/15/2023 11:53:00 PM 1 Toluene ND 0.048 mg/Kg 1 5/15/2023 11:53:00 PM Ethylbenzene ND 0.048 mg/Kg 1 5/15/2023 11:53:00 PM Xylenes, Total ND 0.096 mg/Kg 1 5/15/2023 11:53:00 PM Surr: 4-Bromofluorobenzene 82.4 39.1-146 %Rec 1 5/15/2023 11:53:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride 3800 150 5/17/2023 10:52:54 AM ma/Ka 50

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-27 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 11:10:00 AM

 Lab ID:
 2305593-020
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|---------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 5/16/2023 11:40:07 AM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/16/2023 11:40:07 AM |
| Surr: DNOP | 98.5 | 69-147 | %Rec | 1 | 5/16/2023 11:40:07 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: CCM |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/16/2023 12:15:00 AM |
| Surr: BFB | 85.1 | 15-244 | %Rec | 1 | 5/16/2023 12:15:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: CCM |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/16/2023 12:15:00 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/16/2023 12:15:00 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/16/2023 12:15:00 AM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 5/16/2023 12:15:00 AM |
| Surr: 4-Bromofluorobenzene | 84.4 | 39.1-146 | %Rec | 1 | 5/16/2023 12:15:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 1100 | 60 | mg/Kg | 20 | 5/16/2023 7:59:29 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-27 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 11:15:00 AM

 Lab ID:
 2305593-021
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 5/16/2023 6:06:49 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/16/2023 6:06:49 PM |
| Surr: DNOP | 90.9 | 69-147 | %Rec | 1 | 5/16/2023 6:06:49 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/16/2023 6:40:59 PM |
| Surr: BFB | 97.4 | 15-244 | %Rec | 1 | 5/16/2023 6:40:59 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/16/2023 6:40:59 PM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/16/2023 6:40:59 PM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/16/2023 6:40:59 PM |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 5/16/2023 6:40:59 PM |
| Surr: 4-Bromofluorobenzene | 84.0 | 39.1-146 | %Rec | 1 | 5/16/2023 6:40:59 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 2100 | 60 | mg/Kg | 20 | 5/16/2023 8:11:48 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-28 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 11:30:00 AM

 Lab ID:
 2305593-022
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) ND 8.6 mg/Kg 1 5/16/2023 6:17:43 PM Motor Oil Range Organics (MRO) ND 43 mg/Kg 1 5/16/2023 6:17:43 PM Surr: DNOP 69.3 69-147 %Rec 1 5/16/2023 6:17:43 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/16/2023 7:51:17 PM 4.7 mg/Kg 1 Surr: BFB 93.7 15-244 %Rec 1 5/16/2023 7:51:17 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/16/2023 7:51:17 PM 0.023 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 5/16/2023 7:51:17 PM Ethylbenzene ND 0.047 mg/Kg 1 5/16/2023 7:51:17 PM Xylenes, Total ND 0.094 mg/Kg 1 5/16/2023 7:51:17 PM Surr: 4-Bromofluorobenzene 83.5 39.1-146 %Rec 1 5/16/2023 7:51:17 PM Analyst: SNS **EPA METHOD 300.0: ANIONS** Chloride 970 60 5/16/2023 8:24:09 PM ma/Ka 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-28 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 11:35:00 AM

 Lab ID:
 2305593-023
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|---------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 8.5 | mg/Kg | 1 | 5/16/2023 6:28:37 PM |
| Motor Oil Range Organics (MRO) | ND | 42 | mg/Kg | 1 | 5/16/2023 6:28:37 PM |
| Surr: DNOP | 99.9 | 69-147 | %Rec | 1 | 5/16/2023 6:28:37 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/16/2023 9:01:37 PM |
| Surr: BFB | 97.9 | 15-244 | %Rec | 1 | 5/16/2023 9:01:37 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/16/2023 9:01:37 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/16/2023 9:01:37 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/16/2023 9:01:37 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/16/2023 9:01:37 PM |
| Surr: 4-Bromofluorobenzene | 85.0 | 39.1-146 | %Rec | 1 | 5/16/2023 9:01:37 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/16/2023 8:36:30 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-28 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 11:40:00 AM

 Lab ID:
 2305593-024
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 5/16/2023 6:39:31 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/16/2023 6:39:31 PM |
| Surr: DNOP | 98.1 | 69-147 | %Rec | 1 | 5/16/2023 6:39:31 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/16/2023 9:25:00 PM |
| Surr: BFB | 84.0 | 15-244 | %Rec | 1 | 5/16/2023 9:25:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/16/2023 9:25:00 PM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/16/2023 9:25:00 PM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/16/2023 9:25:00 PM |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 5/16/2023 9:25:00 PM |
| Surr: 4-Bromofluorobenzene | 80.9 | 39.1-146 | %Rec | 1 | 5/16/2023 9:25:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/16/2023 9:13:32 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-29 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 11:55:00 AM

 Lab ID:
 2305593-025
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | 110 | 8.9 | mg/Kg | 1 | 5/16/2023 6:50:25 PM |
| Motor Oil Range Organics (MRO) | 99 | 45 | mg/Kg | 1 | 5/16/2023 6:50:25 PM |
| Surr: DNOP | 106 | 69-147 | %Rec | 1 | 5/16/2023 6:50:25 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/16/2023 9:48:21 PM |
| Surr: BFB | 85.2 | 15-244 | %Rec | 1 | 5/16/2023 9:48:21 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/16/2023 9:48:21 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 9:48:21 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 9:48:21 PM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/16/2023 9:48:21 PM |
| Surr: 4-Bromofluorobenzene | 81.5 | 39.1-146 | %Rec | 1 | 5/16/2023 9:48:21 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/16/2023 9:25:53 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-29 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 12:00:00 PM

 Lab ID:
 2305593-026
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|---------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 8.6 | mg/Kg | 1 | 5/16/2023 7:01:20 PM |
| Motor Oil Range Organics (MRO) | ND | 43 | mg/Kg | 1 | 5/16/2023 7:01:20 PM |
| Surr: DNOP | 97.7 | 69-147 | %Rec | 1 | 5/16/2023 7:01:20 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/16/2023 10:11:41 PM |
| Surr: BFB | 90.4 | 15-244 | %Rec | 1 | 5/16/2023 10:11:41 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/16/2023 10:11:41 PM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/16/2023 10:11:41 PM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/16/2023 10:11:41 PM |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 5/16/2023 10:11:41 PM |
| Surr: 4-Bromofluorobenzene | 83.5 | 39.1-146 | %Rec | 1 | 5/16/2023 10:11:41 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/16/2023 9:38:14 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-29 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 12:05:00 PM

 Lab ID:
 2305593-027
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.7 | mg/Kg | 1 | 5/16/2023 7:12:08 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/16/2023 7:12:08 PM |
| Surr: DNOP | 90.3 | 69-147 | %Rec | 1 | 5/16/2023 7:12:08 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/16/2023 10:35:02 PM |
| Surr: BFB | 79.2 | 15-244 | %Rec | 1 | 5/16/2023 10:35:02 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/16/2023 10:35:02 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 10:35:02 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 10:35:02 PM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 5/16/2023 10:35:02 PM |
| Surr: 4-Bromofluorobenzene | 80.6 | 39.1-146 | %Rec | 1 | 5/16/2023 10:35:02 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 220 | 60 | mg/Kg | 20 | 5/16/2023 9:50:34 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-30 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 12:20:00 PM

 Lab ID:
 2305593-028
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) 600 8.8 mg/Kg 1 5/16/2023 9:33:20 PM Motor Oil Range Organics (MRO) 570 44 mg/Kg 1 5/16/2023 9:33:20 PM 69-147 Surr: DNOP %Rec 1 5/16/2023 9:33:20 PM 111 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/16/2023 10:58:19 PM 5.0 mg/Kg 1 Surr: BFB 79.8 15-244 %Rec 1 5/16/2023 10:58:19 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP 5/16/2023 10:58:19 PM Benzene ND 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 5/16/2023 10:58:19 PM Ethylbenzene ND 0.050 mg/Kg 1 5/16/2023 10:58:19 PM Xylenes, Total ND 0.099 mg/Kg 1 5/16/2023 10:58:19 PM 5/16/2023 10:58:19 PM Surr: 4-Bromofluorobenzene 80.7 39.1-146 %Rec 1 Analyst: SNS **EPA METHOD 300.0: ANIONS** Chloride ND 60 5/16/2023 10:02:55 PM ma/Ka 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-30 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 12:25:00 PM

 Lab ID:
 2305593-029
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|---------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 8.6 | mg/Kg | 1 | 5/16/2023 7:22:59 PM |
| Motor Oil Range Organics (MRO) | ND | 43 | mg/Kg | 1 | 5/16/2023 7:22:59 PM |
| Surr: DNOP | 93.6 | 69-147 | %Rec | 1 | 5/16/2023 7:22:59 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/16/2023 11:21:38 PM |
| Surr: BFB | 69.9 | 15-244 | %Rec | 1 | 5/16/2023 11:21:38 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.023 | mg/Kg | 1 | 5/16/2023 11:21:38 PM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/16/2023 11:21:38 PM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/16/2023 11:21:38 PM |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 5/16/2023 11:21:38 PM |
| Surr: 4-Bromofluorobenzene | 80.5 | 39.1-146 | %Rec | 1 | 5/16/2023 11:21:38 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 84 | 60 | mg/Kg | 20 | 5/16/2023 10:15:16 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-30 3'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 12:30:00 PM

 Lab ID:
 2305593-030
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|---------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | 63 | 9.3 | mg/Kg | 1 | 5/16/2023 7:33:51 PM |
| Motor Oil Range Organics (MRO) | 62 | 46 | mg/Kg | 1 | 5/16/2023 7:33:51 PM |
| Surr: DNOP | 93.8 | 69-147 | %Rec | 1 | 5/16/2023 7:33:51 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/16/2023 11:45:05 PM |
| Surr: BFB | 69.1 | 15-244 | %Rec | 1 | 5/16/2023 11:45:05 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/16/2023 11:45:05 PM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/16/2023 11:45:05 PM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/16/2023 11:45:05 PM |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 5/16/2023 11:45:05 PM |
| Surr: 4-Bromofluorobenzene | 78.5 | 39.1-146 | %Rec | 1 | 5/16/2023 11:45:05 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 320 | 60 | mg/Kg | 20 | 5/17/2023 8:49:59 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-31 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 12:40:00 PM

 Lab ID:
 2305593-031
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/16/2023 7:44:43 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/16/2023 7:44:43 PM |
| Surr: DNOP | 93.9 | 69-147 | %Rec | 1 | 5/16/2023 7:44:43 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/17/2023 12:31:41 AM |
| Surr: BFB | 84.8 | 15-244 | %Rec | 1 | 5/17/2023 12:31:41 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/17/2023 12:31:41 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/17/2023 12:31:41 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/17/2023 12:31:41 AM |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 5/17/2023 12:31:41 AM |
| Surr: 4-Bromofluorobenzene | 82.4 | 39.1-146 | %Rec | 1 | 5/17/2023 12:31:41 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/17/2023 9:02:19 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

5/17/2023 9:14:39 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-31 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/9/2023 12:45:00 PM

 Lab ID:
 2305593-032
 Matrix: SOIL
 Received Date: 5/11/2023 8:00:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) ND 9.1 mg/Kg 1 5/16/2023 8:06:23 PM Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 5/16/2023 8:06:23 PM 69-147 Surr: DNOP 95.0 %Rec 1 5/16/2023 8:06:23 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/17/2023 12:54:59 AM 4.9 mg/Kg 1 Surr: BFB 87.0 15-244 %Rec 1 5/17/2023 12:54:59 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/17/2023 12:54:59 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/17/2023 12:54:59 AM Ethylbenzene ND 0.049 mg/Kg 1 5/17/2023 12:54:59 AM Xylenes, Total ND 0.099 mg/Kg 1 5/17/2023 12:54:59 AM Surr: 4-Bromofluorobenzene 83.6 39.1-146 %Rec 1 5/17/2023 12:54:59 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS

ND

60

ma/Ka

20

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

Qualifiers:

Chloride

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2305593-033

EPA METHOD 8021B: VOLATILES

Lab ID:

Benzene

Toluene

Ethylbenzene

Analytical Report Lab Order 2305593

Received Date: 5/11/2023 8:00:00 AM

Date Reported: 5/23/2023

Analyst: JJP

5/17/2023 1:18:25 AM

5/17/2023 1:18:25 AM

5/17/2023 1:18:25 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-31 3.5

Matrix: SOIL

Project: Cotton Draw Unit 1 12 CTB Collection Date: 5/9/2023 12:50:00 PM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 5/16/2023 8:17:17 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 5/16/2023 8:17:17 PM Surr: DNOP 98.6 69-147 %Rec 1 5/16/2023 8:17:17 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/17/2023 1:18:25 AM 4.8 mg/Kg 1 Surr: BFB 67.5 15-244 %Rec 1 5/17/2023 1:18:25 AM

Xylenes, Total ND 0.096 mg/Kg 1 5/17/2023 1:18:25 AM Surr: 4-Bromofluorobenzene 78.0 39.1-146 %Rec 1 5/17/2023 1:18:25 AM Analyst: SNS **EPA METHOD 300.0: ANIONS** Chloride 380 60 5/17/2023 9:51:41 PM ma/Ka 20

ND

ND

ND

0.024

0.048

0.048

mg/Kg

mg/Kg

mg/Kg

1

1

1

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305593**

23-May-23

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

Sample ID: MB-74979 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 74979 RunNo: 96806

Prep Date: 5/16/2023 Analysis Date: 5/16/2023 SeqNo: 3511156 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-74979 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74979 RunNo: 96806

Prep Date: 5/16/2023 Analysis Date: 5/16/2023 SeqNo: 3511157 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.6 90 110

Sample ID: MB-74993 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 74993 RunNo: 96806

Prep Date: 5/16/2023 Analysis Date: 5/16/2023 SeqNo: 3511194 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-74993 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74993 RunNo: 96806

Prep Date: 5/16/2023 Analysis Date: 5/16/2023 SeqNo: 3511195 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 90.2 90 110

Sample ID: MB-74991 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **74991** RunNo: **96813**

Prep Date: 5/16/2023 Analysis Date: 5/16/2023 SeqNo: 3511568 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-74991 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74991 RunNo: 96813

Prep Date: 5/16/2023 Analysis Date: 5/16/2023 SeqNo: 3511569 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.7 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

23-May-23

2305593

WO#:

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

Sample ID: MB-75001 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 75001 RunNo: 96821

Prep Date: 5/17/2023 Analysis Date: 5/17/2023 SeqNo: 3512896 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-75001 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 75001 RunNo: 96821

Prep Date: 5/17/2023 Analysis Date: 5/17/2023 SeqNo: 3512897 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.8 90 110

Sample ID: MB-75006 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 75006 RunNo: 96821

Prep Date: 5/17/2023 Analysis Date: 5/17/2023 SeqNo: 3512943 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-75006 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 75006 RunNo: 96821

Prep Date: 5/17/2023 Analysis Date: 5/17/2023 SeqNo: 3512944 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.4 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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2305593 23-May-23

WO#:

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: 2305593-002AMS | SampType: MS TestCode: EPA Method 8 | | | | | | 8015M/D: Di | esel Range | e Organics | | |
|--|-------------------------------------|--------------------------------------|----------------|----------------------------|----------------------|----------------|--------------------|--------------|---------------------|------|--|
| Client ID: BH23-21 2' | Batch | 1D: 74 9 | 902 | 2 RunNo: 96715 | | | | | | | |
| Prep Date: 5/11/2023 | Analysis D | ate: 5/ | 13/2023 | 23 SeqNo: 3508357 U | | | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Diesel Range Organics (DRO) | 39 | 9.5 | 47.71 | 0 | 81.2 | 54.2 | 135 | | | | |
| Surr: DNOP | 4.1 | | 4.771 | | 85.6 | 69 | 147 | | | | |
| Sample ID: 2305593-002AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | | | | |
| Sample ID: 2305593-002AMSI | D SampT | ype: MS | SD | Tes | tCode: El | PA Method | 8015M/D: Di | esel Range | e Organics | | |
| Sample ID: 2305593-002AMSI Client ID: BH23-21 2' | • | ype: MS | | | tCode: El | | 8015M/D: Die | esel Range | e Organics | | |
| · · | • | n ID: 74 9 | 902 | F | | 6715 | 8015M/D: Di | J | e Organics | | |
| Client ID: BH23-21 2' | Batch | n ID: 74 9 | 902 13/2023 | F | RunNo: 9 | 6715 | | J | e Organics RPDLimit | Qual | |
| Client ID: BH23-21 2' Prep Date: 5/11/2023 | Batch Analysis D | n ID: 74 9 vate: 5/ | 902 13/2023 | F | RunNo: 9 SeqNo: 3 | 6715 508358 | Units: mg/k | (g | J | Qual | |

| Sample ID: LCS-74902 | SampT | ype: LC | S | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|-----------------------------|------------|-----------------|-----------|---|-----------------------|----------|-----------|--------------|----------|------|--|
| Client ID: LCSS | Batch | 1D: 74 9 | 902 | RunNo: 96715 | | | | | | | |
| Prep Date: 5/11/2023 | Analysis D | ate: 5/ | 12/2023 | S | SeqNo: 3508385 | | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Diesel Range Organics (DRO) | 44 | 10 | 50.00 | 0 | 88.0 | 61.9 | 130 | | | | |
| Surr: DNOP | 4.4 | | 5.000 | | 88.6 | 69 | 147 | | | | |

| Sample ID: MB-74902 | Гуре: МЕ | BLK | Tes | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|--------------------------------|--|-----|-----------|---|----------|----------|--------------|------|----------|------|
| Client ID: PBS | Batch ID: 74902 Analysis Date: 5/12/2023 | | | F | RunNo: 9 | 6715 | | | | |
| Prep Date: 5/11/2023 | | | | SeqNo: 3508387 | | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 8.2 | | 10.00 | | 82.2 | 69 | 147 | | | |

| Sample ID: LCS-74924 | SampT | ype: LC | S | Tes | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|-----------------------------|--------|----------------|-----------|-------------|---|-----------------------|-----------|------|--------------|------|--|--|
| Client ID: LCSS | | | | | | RunNo: 96749 | | | | | | |
| Prep Date: 5/12/2023 | | | | | | SeqNo: 3509530 | | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| Diesel Range Organics (DRO) | 45 | 10 | 50.00 | 0 | 90.3 | 61.9 | 130 | | | | | |
| Surr: DNOP | 4.6 | | 5.000 | | 92.2 | 69 | 147 | | | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305593 23-May-23**

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: MB-74924 | SampT | уре: М | BLK | Tes | tCode: E | PA Method | 8015M/D: Die | esel Rang | e Organics | |
|--------------------------------|------------|------------------|-----------|-------------|----------|-----------|--------------|-----------|------------|------|
| Client ID: PBS | Batch | n ID: 74 | 924 | F | RunNo: 9 | 6749 | | | | |
| Prep Date: 5/12/2023 | Analysis D | ate: 5/ | 15/2023 | S | SeqNo: 3 | 509531 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.0 | | 10.00 | | 89.9 | 69 | 147 | | | |
| Sample ID: MB-74969 | SampT | ype: MI | BLK | Tes | tCode: E | PA Method | 8015M/D: Die | esel Rang | e Organics | |
| Client ID: PBS | Batch | 1D: 74 | 969 | F | RunNo: 9 | 6783 | | | | |
| Prep Date: 5/15/2023 | Analysis D | ate: 5/ | 16/2023 | S | SeqNo: 3 | 510134 | Units: %Red | : | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 9.5 | | 10.00 | | 94.9 | 69 | 147 | | | |
| Sample ID: 2305593-021AM | SampT | ype: M \$ | 5 | Tes | tCode: E | PA Method | 8015M/D: Die | esel Rang | e Organics | |
| Client ID: BH23-27 4' | Batch | 1D: 74 | 966 | F | RunNo: 9 | 6783 | | | | |
| Prep Date: 5/15/2023 | Analysis D | ate: 5/ | 16/2023 | 8 | SeqNo: 3 | 510880 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 44 | 9.9 | 49.26 | 0 | 88.7 | 54.2 | 135 | | | |
| Surr: DNOP | 4.4 | | 4.926 | | 89.0 | 69 | 147 | | | |
| Sample ID: 2305593-021AM | SD SampT | ype: M \$ | SD | Tes | tCode: E | PA Method | 8015M/D: Die | esel Rang | e Organics | · |
| Client ID: BH23-27 4' | Batch | 1D: 74 | 966 | F | RunNo: 9 | 6783 | | | | |
| Prep Date: 5/15/2023 | Analysis D | ate: 5/ | 16/2023 | 5 | SeqNo: 3 | 510881 | Units: ma/K | (a | | |

| Ciletit ID. BH23-27 4 | Dato | 11D. 74 | 900 | ı, | tuilivo. 3 | 0703 | | | | |
|------------------------------|------------|----------------|-----------|-------------|------------|----------|-------------|------|----------|------|
| Prep Date: 5/15/2023 | Analysis D | ate: 5/ | 16/2023 | 9 | SeqNo: 3 | 510881 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 45 | 9.8 | 49.16 | 0 | 91.6 | 54.2 | 135 | 2.96 | 29.2 | |
| Surr: DNOP | 4.7 | | 4.916 | | 95.9 | 69 | 147 | 0 | 0 | |
| | | | _ | _ | | | | | | |

| Sample ID: LCS-74966 | SampT | ype: LC | S | Tes | tCode: El | PA Method | 8015M/D: Di | esel Range | e Organics | |
|-----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|-------------|------------|------------|------|
| Client ID: LCSS | Batch | n ID: 74 9 | 966 | F | RunNo: 9 | 6783 | | | | |
| Prep Date: 5/15/2023 | Analysis D | ate: 5/ | 16/2023 | 8 | SeqNo: 3 | 510946 | Units: mg/k | ζg | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 48 | 10 | 50.00 | 0 | 95.1 | 61.9 | 130 | | | |
| Surr: DNOP | 4.8 | | 5.000 | | 96.4 | 69 | 147 | | | |

| Sample ID: LCS-74969 | SampType: LCS | TestCode: EPA Method 8015M/D: Diesel Range Organics |
|----------------------|--------------------------|--|
| Client ID: LCSS | Batch ID: 74969 | RunNo: 96783 |
| Prep Date: 5/15/2023 | Analysis Date: 5/16/2023 | SeqNo: 3510973 Units: %Rec |
| Analyte | Result PQL SPK value SP | K Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305593**

23-May-23

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

Sample ID: LCS-74969 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 74969 RunNo: 96783

Prep Date: 5/15/2023 Analysis Date: 5/16/2023 SeqNo: 3510973 Units: %Rec

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

Surr: DNOP 4.7 5.000 94.3 69 147

Sample ID: MB-74966 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 74966 RunNo: 96783

Prep Date: 5/15/2023 Analysis Date: 5/16/2023 SeqNo: 3510974 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.1 10.00 91.2 69 147

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
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- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305593**

23-May-23

| Client: | Vertex Resources Services, Inc. |
|----------|---------------------------------|
| Project: | Cotton Draw Unit 1 12 CTB |

| Project: Cotton L | raw Unit 1 12 C1 | | | | | | | | |
|-------------------------------|--------------------------|-------------|-------------|-----------|-----------|-------------|-----------|----------|------|
| Sample ID: mb-74896 | SampType: M | BLK | Test | tCode: EF | PA Method | 8015D: Gaso | line Rang | е | |
| Client ID: PBS | Batch ID: 74 | 896 | R | tunNo: 90 | 6758 | | | | |
| Prep Date: 5/11/2023 | Analysis Date: 5 | /15/2023 | S | SeqNo: 3 | 509390 | Units: mg/K | (g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND 5.0 | | | | | | | | |
| Surr: BFB | 870 | 1000 | | 87.1 | 15 | 244 | | | |
| Sample ID: Ics-74896 | SampType: L (| cs | Test | tCode: EF | PA Method | 8015D: Gaso | line Rang | е | |
| Client ID: LCSS | Batch ID: 74 | 896 | R | lunNo: 90 | 6758 | | | | |
| Prep Date: 5/11/2023 | Analysis Date: 5 | /15/2023 | S | SeqNo: 3 | 509391 | Units: mg/K | (g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 20 5.0 | 25.00 | 0 | 78.6 | 70 | 130 | | | |
| Surr: BFB | 1900 | 1000 | | 189 | 15 | 244 | | | |
| Sample ID: LCS-74888 | SampType: L0 | cs | Test | tCode: EF | PA Method | 8015D: Gaso | line Rang | е | |
| Client ID: LCSS | Batch ID: 74 | 888 | R | tunNo: 90 | 6758 | | | | |
| Prep Date: 5/11/2023 | Analysis Date: 5 | /16/2023 | S | SeqNo: 3 | 509411 | Units: mg/K | (g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 19 5.0 | | 0 | 77.2 | 70 | 130 | | | |
| Surr: BFB | 1900 | 1000 | | 194 | 15 | 244 | | | |
| Sample ID: MB-74888 | SampType: M | BLK | Test | tCode: EF | PA Method | 8015D: Gaso | line Rang | е | |
| Client ID: PBS | Batch ID: 74 | 888 | R | tunNo: 90 | 6758 | | | | |
| Prep Date: 5/11/2023 | Analysis Date: 5 | /16/2023 | S | SeqNo: 3 | 509412 | Units: mg/K | (g | | |
| Analyte | Result PQL SPK value SPR | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Gasoline Range Organics (GRO) | | | | | | | | | |
| Surr: BFB | 860 | 1000 | | 86.5 | 15 | 244 | | | |
| Sample ID: Ics-74920 | SampType: L0 | cs | Test | tCode: EF | PA Method | 8015D: Gaso | line Rang | е | |
| Client ID: LCSS | Batch ID: 74 | 920 | R | tunNo: 90 | 6786 | | | | |
| Prep Date: 5/12/2023 | Analysis Date: 5 | /16/2023 | S | SeqNo: 3 | 510635 | Units: mg/K | (g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24 5.0 | | 0 | 96.9 | 70 | 130 | | | |
| Surr: BFB | 5200 | 1000 | | 522 | 15 | 244 | | | S |
| Sample ID: mb-74920 | SampType: M | BLK | Test | tCode: EF | PA Method | 8015D: Gaso | line Rang | e | |
| Client ID: PBS | Batch ID: 74 | 920 | R | tunNo: 90 | 6786 | | | | |
| Prep Date: 5/12/2023 | Analysis Date: 5 | /16/2023 | S | SeqNo: 3 | 510636 | Units: mg/K | (g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305593**

23-May-23

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

Sample ID: mb-74920 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 74920 RunNo: 96786

Prep Date: 5/12/2023 Analysis Date: 5/16/2023 SeqNo: 3510636 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 101 15 244

Sample ID: 2305593-021ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BH23-27 4'** Batch ID: **74920** RunNo: **96786**

Prep Date: 5/12/2023 Analysis Date: 5/16/2023 SeqNo: 3510638 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 70 Gasoline Range Organics (GRO) 4.8 23.83 0 91.4 130 Surr: BFB 4800 S 953.3 507 15 244

Sample ID: 2305593-021amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BH23-27 4'** Batch ID: **74920** RunNo: **96786**

Prep Date: 5/12/2023 Analysis Date: 5/16/2023 SeqNo: 3510639 Units: mg/Kg

Result %RPD Qual PQL SPK value SPK Ref Val %REC HighLimit **RPDLimit** Analyte LowLimit Gasoline Range Organics (GRO) 21 4.8 23.85 0 89.8 70 130 1.71 20 Surr: BFB 4800 954.2 501 0 S 15 244 0

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305593**

23-May-23

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

Sample ID: mb-74896 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 74896 RunNo: 96758 Prep Date: 5/11/2023 Analysis Date: 5/15/2023 SeqNo: 3509443 Units: mq/Kq SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit Qual Benzene ND 0.025 Toluene ND 0.050 0.050 Ethylbenzene ND Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.85 1.000 84.7 39.1 146

Sample ID: Ics-74896 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 74896 RunNo: 96758 SeqNo: 3509444 Prep Date: 5/11/2023 Analysis Date: 5/15/2023 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 70 0.91 0.025 n 91.5 130 Benzene Toluene 0.91 0.050 1.000 0 90.6 70 130 0 88.2 70 0.88 0.050 1.000 130 Ethylbenzene 0 87.8 Xylenes, Total 2.6 0.10 3.000 70 130 Surr: 4-Bromofluorobenzene 0.87 1.000 87.0 39.1 146

Sample ID: LCS-74888 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 74888 RunNo: 96758 Prep Date: 5/11/2023 Analysis Date: 5/16/2023 SeqNo: 3509464 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte 0.025 90.4 70 0.90 1.000 130 Benzene O 0.89 0.050 1.000 0 89.3 70 130 Toluene 0 86.5 70 Ethylbenzene 0.87 0.050 1.000 130 Xylenes, Total 2.6 0.10 3.000 0 85.6 70 130 Surr: 4-Bromofluorobenzene 85.7 0.86 1.000 39.1 146

TestCode: EPA Method 8021B: Volatiles Sample ID: MB-74888 SampType: MBLK Client ID: PBS Batch ID: 74888 RunNo: 96758 Prep Date: 5/11/2023 Analysis Date: 5/16/2023 SeqNo: 3509465 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit **RPDLimit** Analyte Result PQL HighLimit %RPD Qual ND 0.025 Benzene Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 1.000 39.1 0.84 84.0 146

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305593 23-May-23**

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: LCS-74920 | SampT | ype: LC | s | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
|----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|--------------|------|----------|------|
| Client ID: LCSS | Batch | n ID: 74 9 | 920 | F | RunNo: 90 | 6786 | | | | |
| Prep Date: 5/12/2023 | Analysis D | oate: 5/ | 16/2023 | 9 | SeqNo: 3 | 510692 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.79 | 0.025 | 1.000 | 0 | 78.5 | 70 | 130 | | | |
| Toluene | 0.81 | 0.050 | 1.000 | 0 | 81.0 | 70 | 130 | | | |
| Ethylbenzene | 0.82 | 0.050 | 1.000 | 0 | 81.7 | 70 | 130 | | | |
| Xylenes, Total | 2.5 | 0.10 | 3.000 | 0 | 82.1 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.88 | | 1.000 | | 88.4 | 39.1 | 146 | | | |

| Sample ID: mb-74920 | SampT | ype: ME | BLK | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
|----------------------------|------------|-----------------|-----------|-------------|-----------|-----------|--------------|------|----------|------|
| Client ID: PBS | Batch | n ID: 74 | 920 | F | RunNo: 9 | 6786 | | | | |
| Prep Date: 5/12/2023 | Analysis D | ate: 5/ | 16/2023 | 8 | SeqNo: 3 | 510693 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.85 | | 1.000 | | 84.9 | 39.1 | 146 | | | |

| Sample ID: 2305593-022ams | SampT | Гуре: М | 3 | Tes | tCode: El | PA Method | 8021B: Volat | tiles | | |
|----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|--------------|-------|----------|------|
| Client ID: BH23-28 0' | Batcl | h ID: 74 9 | 920 | F | RunNo: 9 | 6786 | | | | |
| Prep Date: 5/12/2023 | Analysis D | Date: 5/ | 16/2023 | S | SeqNo: 3 | 510711 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.70 | 0.023 | 0.9355 | 0 | 75.1 | 70 | 130 | | | |
| Toluene | 0.73 | 0.047 | 0.9355 | 0.01562 | 76.1 | 70 | 130 | | | |
| Ethylbenzene | 0.74 | 0.047 | 0.9355 | 0 | 79.3 | 70 | 130 | | | |
| Xylenes, Total | 2.2 | 0.094 | 2.806 | 0 | 80.1 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.79 | | 0.9355 | | 84.7 | 39.1 | 146 | | | |

| Sample ID: 2305593-022amsd | I SampT | ype: MS | SD | Tes | tCode: El | PA Method | 8021B: Volat | iles | | |
|----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|--------------|------|----------|------|
| Client ID: BH23-28 0' | Batch | n ID: 74 9 | 920 | F | RunNo: 9 | 6786 | | | | |
| Prep Date: 5/12/2023 | Analysis D | ate: 5/ | 16/2023 | S | SeqNo: 3 | 510713 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.75 | 0.023 | 0.9390 | 0 | 79.9 | 70 | 130 | 6.56 | 20 | |
| Toluene | 0.78 | 0.047 | 0.9390 | 0.01562 | 80.9 | 70 | 130 | 6.42 | 20 | |
| Ethylbenzene | 0.79 | 0.047 | 0.9390 | 0 | 83.8 | 70 | 130 | 5.94 | 20 | |
| Xylenes, Total | 2.4 | 0.094 | 2.817 | 0 | 84.2 | 70 | 130 | 5.33 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.79 | | 0.9390 | | 84.1 | 39.1 | 146 | 0 | 0 | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory
4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Released to Imaging: 4/23/2025 2:19:30 PM

| LABOR | KATOKT | | ì | Vebsite: www | .hallenvironmen | tal.com | | |
|--|----------------------------|-----------------|-----------------|------------------------------|-----------------|---|---|-------------------|
| Client Name: | Vertex Res Services, Ir | | Work | Order Numb | er: 2305593 | | RcptNo: | 1 |
| Received By: | Juan Roja | ıs | 5/11/20 | 23 8:00:00 <i>A</i> | ΛM | Guarda J | | |
| Completed By: | Cheyenne | Cason | 5/11/20 | 23 9:07:36 <i>F</i> | ΛM | Glenl | | |
| Reviewed By: | | 5.11.3 | 23 | | | Copie de la companya | | |
| Chain of Cus | <u>tody</u> | | | | | | | |
| 1. Is Chain of C | ustody comp | lete? | | | Yes 🗹 | No 🗌 | Not Present | |
| 2. How was the | sample deliv | ered? | | | Courier | | | |
| Log In 3. Was an atter | npt made to d | cool the samp | les? | | Yes 🗹 | No 🗌 | na 🗆 | |
| 4. Were all samp | oles received | at a tempera | ture of >0° C | to 6.0°C | Yes 🗹 | No 🗌 | na 🗆 | |
| 5. Sample(s) in | proper conta | iner(s)? | | | Yes 🗹 | No 🗌 | | |
| 6. Sufficient sam | ple volume f | or indicated te | est(s)? | | Yes 🗹 | No 🗌 | | |
| 7. Are samples (| except VOA | and ONG) pro | operly preserve | ed? | Yes 🗸 | No 🗌 | | |
| 8. Was preserva | tive added to | bottles? | | | Yes 🗌 | No 🗹 | NA 🗌 | |
| 9. Received at le | east 1 vial wit | h headspace | <1/4" for AQ \ | OA? | Yes 🗌 | No 🗆 | NA 🗹 | |
| 10. Were any sar | nple containe | ers received b | roken? | | Yes □ | No 🗹 | # of preserved | |
| 11.Does paperwo (Note discrepa | | |) | | Yes 🗹 | No 🗆 | bottles checked for pH: (<2 or | >12 unless noted) |
| 2. Are matrices | correctly iden | tified on Chai | n of Custody? | | Yes 🗹 | No 🗌 | Adjusted? | |
| 3. Is it clear wha | t analyses we | ere requested | ? | | Yes 🗹 | No 🗆 | | |
| 14. Were all holdi (If no, notify c | • | | | | Yes 🗹 | No 🗆 | Checked by: | m5/4/2 |
| Special Handl | | | | | | | | |
| 15. Was client no | tified of all d | iscrepancies v | with this order | • | Yes 🗌 | No 🗆 | NA 🗹 | |
| By Who | ing: | Mailing addre | ess, phone nur | Date: Via: nber and En | eMail | Phone Fax | ☐ In Person | |
| 16. Additional re | marks: | | | | | | | - |
| 17. <u>Cooler Infor</u> | - | | | | | | | |
| Cooler No | - | 1 | Seal Intact | Seal No | Seal Date | Signed By | *************************************** | |
| 14 | 2.6 | Good | Yes | Yogi | | | | |

| ceived by 0g | J. 1786.20 | ceived & 1958 1-189-189 St Billy Mecord | | Turn-Around Time: | ime: | | | | Ī | | I | 5 | NOS | HALL ENVIRONMEN AL | 00 |
|-----------------|------------|---|---------------------|--|---------------|------------|------------|------------------------|--------------|-----------------------|----------------|--------------------|---|------------------------------------|----|
| Client: | Vertex | ¥ | | | K Rush | 5 paul | | П | ⋖ | Ž | ΥS | S | ABC | ANALYSIS LABORATORY | |
| | (direct | (direct bill to Devon) | | Project Name: | ? | | | | > | ww.ha | llenviro | nmer | www.hallenvironmental.com | | |
| Mailing Address | ess: | | | Cotton Draw U | Jnit 1-12 CTB | 8 | 7 | 4901 Hawkins NE | awkin | | - Albu | querq | Albuquerque, NM 87109 | 37109 | |
| | | | | Project #: | | | | Tel. 50 | 505-345-3975 | -3975 | Fax | _ | 505-345-4107 | 07 | 1 |
| Phone #: | | | | 23E-02423 | | | | | | | Analysis | | Request | | |
| email or Fax#: | #: | | | Project Manager: | er: | | | | | | ⁵OS | - | (juə | | |
| QA/QC Package: | зде: | | | Kent Stallings | | | | | | CIVII | ; ' † O | | sdA | | |
| □ Standard | | ☐ Level 4 (Full Validation) | | kstallings@vert | tex.ca | | | | | S07 | d '' | | Дuə | | |
| Accreditation: | | Az Compliance | | Sampler: L. | Pullman | | | | | 7Q J | ON | (A | | | |
| □ NELAC | □ Other | her | | V | Tes L | ON I | | | | | | O/ — | | | |
| □ EDD (Type) |) (ec | | | # of Coolers: (Cooler Temp@nctuding CF): | chuding CF): | 900 | | | | | N ' | | | | 7 |
| | | | | Container | Preservative | N A LI | / / X | 108:1 99 1 | ΘΜ) ξ | yd al 8 A <i>F</i> | -, Br | ον) ο ον) ο | oO le | | |
| Date Time | ne Matrix | ix Sample Name | Vame | # | Type | 2305593 | ! | | | | cı'ı | | -+ | | |
| 05/09/23 8:4 | 8:45 Soil | I BH22-21 0' | -21 0' | 1, 4oz jar | | 30 | × | × | | | × | | | | T |
| 05/09/23 8: | 8:50 Soil | ВН22-21 2 | -21 2' | 1, 4oz jar | | 000 | × | × | | | × | \dashv | | | |
| 05/09/23 8: | 8:55 Soil | BH22-21 4' | -21 4' | 1, 4oz jar | | 803 | × | × | | | × | \dashv | | | |
| 05/09/23 9:0 | 9:05 Soil | ВН22-22 0' | -22 0' | 1, 4oz jar | | hoo | × | × | | | × | | | | |
| | 9:10 Soil | | ВН22-22 2' | 1, 4oz jar |) | 900 | × | × | | | × | - | | | |
| 05/09/23 9: | 9:15 Soil | BH22-22 3.5' | 22 3.5' | 1, 4oz jar | 9 | <i>806</i> | × | × | _ | _ | × | \dashv | | | |
| | | | BH22-23 0' | 1, 4oz jar | | 700 | × | × | \dashv | | × | - | | | 1 |
| 05/09/23 9: | 9:30 Soil | | ВН22-23 2' | 1, 4oz jar | | 200 | × | × | | | × | -+ | | | 1 |
| 1 | 9:35 Soil | | BH22-23 3.5' | 1, 4oz jar | | 600 | × | × | | - | × | + | | | |
| 05/09/23 9: | 9:50 Soil | | ВН22-24 0' | 1, 4oz jar | | 010 | × | × | | + | × | | | | |
| 05/09/23 9: | 9:55 Soil | | BH22-24 2' | 1, 4oz jar | J | 011 | × | × | | | × | | _ | | |
| | 10:00 Soil | II BH22-24 | -24 3' | 1, 4oz jar | | 210 | × | × | | _ | × | | | | |
| Date: Time: | 8 | ishev by. | | Received by: | Via: | F | Remarks | Remarks: | Š | è | OW O | 1000 | | | |
| 5-6-23 0726 | | EN LIVIOUS | | Mum | (A) | | Sc. k | t billi të stalline | s@vev | on, D | a for l | Final | Direct bill to Devon, Dale Woodall cc. kstallings@vertex.ca for Final Report | 2 | |
| Date: Time: | | Relinquished by: | | Received by: | Via: | Date Time | S S | Somple names | ines (| 22H9 | 2 0.05 | 3423 | ψ 47.72 7.52 | | |
| OBILI CATOIT | M Q | Complex submitted to Hall Environ | nmental may be subc | contracted to other ac | 人(CCcんと) | 1780 W | lidissod s | ity. Any s | ub-contr | acted da | a will be | slearly no | stated on the | one 510123 e analytical report. | 1 |

If necessary, samples submitted to Hall Environmen

| Received & 1991-161-20-4-81-8-43-11 ecord | Turn-Around Time: | Page 167 of 523 |
|---|---|----------------------|
| Client: | < \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | HALL ENVIRONMENIAL |
| Vertex | Standard Rush 7 Vau | ANALYSTS I ABORATORY |
| | | |

www.hallenvironmental.com

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

Cotton Draw Unit 1-12 CTB Project #:

Project Name:

(direct bill to Devon)

Mailing Address:

| | | | | _ | | | | | | | | | | | | | |
|----------------|----------------|--------------|--|---------------------------------|----------------------|------------------|---------|-----------------|---|------------|-------|------------------|--------------------|------------|-----|---|--|
| Phone #: | #: | | | 23E-02423 | | | | | | | ⋖ | Analysis Request | is Re | dnest | | | |
| email o | email or Fax#: | | | Project Manager: | | | | | 10 | - | | [†] Ο | | (tr | | | |
| QA/QC | QA/QC Package: | :: | | Kent Stallings | | | | | | SW | | S 'Þ | | ıəsq | | | |
| □ Standard | ndard | | ☐ Level 4 (Full Validation) | kstallings@verte | tex.ca | | | | | 1150 | | РО | | Α∖Ju | | | |
| Accreditation: | itation: | □ Az C | ☐ Az Compliance | Sampler: L.F | Pullman | | | | | | | 10 ⁵ | | | | | |
| □ NELAC | AC | □ Other | J. | | □ Yes □ | □ No | | | | | | ۱ '' | —— (AC | | | | |
| | EDD (Type) | | | # of Coolers: | | you | c) c | | | | | | | | | | |
| | | | | Cooler Temp(including CF): | ding CF): 7.6. | 0=20 | ٥ | | | | | | | | | | |
| Date | Time | Matrix | Sample Name | Container Pre Type and # Tyl | Preservative 7. | HEAL NO. 2305548 | . S. S. | X3T8 108:H9T | 8081 Pe | M) 8D3 | | CI, F, B | V) 0328 S) 0728 | oO lstoT | | | |
| 05/09/23 | 10:10 | Soil | BH22-25 0' | 1, 4oz jar | ₫ | 90 O13 | | × | | | | × | | | | | |
| 05/09/23 | 10:15 | Soil | BH22-25 2' | 1, 4oz jar | 710 | 5 | | × | | | | × | | | | | |
| 05/09/23 | 10:20 | Soil | BH22-25 3' | 1, 4oz jar | 510 | 5 | | × | | | | × | | | | | |
| 05/09/23 | 10:45 | Soil | BH22-26 0' | 1, 4oz jar | 910 | 9 | | × | | | | × | | | | | |
| 05/09/23 | 10:50 | Soil | BH22-26 2' | 1, 4oz jar | 219 | 7 | | × | | | | × | | | | | |
| 05/09/23 | 10:55 | Soil | BH22-26 3' | 1, 4oz jar | 810 | 3 | | × | | | | × | | | | | |
| 05/09/23 | 11:05 | Soil | BH22-27 0' | 1, 4oz jar | 019 | 7 | | × | | | | × | | | | | |
| 05/09/23 | 11:10 | Soil | BH22-27 2' | 1, 4oz jar | 020 | Ó | | × | | | | × | | | | | |
| 05/09/23 | 11:15 | Soil | BH22-27 4' | 1, 4oz jar | 120 | 21 | | × | | | | × | | | | | |
| 05/09/23 | 11:30 | Soil | BH22-28 0' | 1, 4oz jar | 00 | 022 | | × | | | | × | | | | | |
| 05/09/23 | 11:35 | Soil | BH22-28 2' | 1, 4oz jar | 0.0 | 023 | | × | | | | × | | | | | |
| 05/09/23 | 11:40 | _ | BH22-28 4' | 1, 4oz jar | 0 | 224 | | × | | | | × | | | | | |
| Date: | Time: | Relinquiphed | ned by: | Received by: | Via: | o) | Time | Remarks: | ks: | | | | | | | | |
| Da.LD 81-01-5 | 5 | 2000 | AND THE STATE OF T | While | 30 | 5000 | 700 | Direct | Direct bill to Devon, Dale Woodall | Devoi | , Dal | Woo | dall | 1 | | | |
| Date | Time: | 8 | :yq pəu | Received by: | Via: | | Time | | cc. Kstallings@vertex.ca for Final Report | e (CVe | ex.ca | <u> </u> | 2 | nodey | | ~ | |
| 3/10/20 BONG | <u>Z</u> | Cherry | | A | 100, 25 5/11/23 8:00 | ful23 8 | 00;00 | | | | | | | | | 3 | |
| | le neoceean | { | and the property of the proper | | | | 1000 | 411.47 | . | | | 1 11 | | the second | 1 1 | 1 | |

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.

| ceived 0 | 1980in | 79976St | ceived Orl SPin Log Log Sticking All ecord | Turn-Around Time: | ime: | | | | | 3 | = | Ü | 2 | 0 | Page 168 of 523 | 523 |
|----------------|----------------------|---|---|----------------------------|--|-----------------------------------|---------|-------------------------|--|------------------|----------|--|----------|---|------------------------|-----|
| Client: | | Vertex | | X Standard | ∭ Rush_ | , 5 Deu | | | 1 [| E & | ANAL | YS | YSIS | 2 | ABORATORY | |
| - 3 | | (direct bi | (direct bill to Devon) | Project Name: | | | | | | \} | w.ha | llenvir | onm. | art. | Ę | |
| Mailing | Mailing Address: | •• | | Cotton Draw | Unit 1-12 C | TB | | 490 | 4901 Hawkins NE | vkins | 빙 | - Albu | ndner | que, N | Albuquerque, NM 87109 | |
| | | | | Project #: | | | | ⊢ e | Tel. 505-345-3975 | 345- | 3975 | | ax 5(| Fax 505-345-4107 | 4107 | |
| Phone #: | #: | | | 23E-02423 | | | 4 | | | | | Analy | sis R | Analysis Request | | |
| email or Fax#: | Fax#: | | | Project Manager: | Jer: | | (1 | (0 | | | | [₽] O ^{\$} | | (ju | | |
| QA/QC F | QA/QC Package: | | | Kent Stallings | | | 802 | AM. | s,g; | SM | | S Ԡ(| | psq | | |
| □ Standard | dard | | ☐ Level 4 (Full Validation) | kstallings@vertex.ca | tex.ca | | s,8 | / O | ьс | IS0 | |) PC | | Α∖ţu | | |
| Accreditation: | tation: | ☐ Az Co | npliance | Sampler: | L.Pullman | | 3MT | 40 / O | | | | NO ⁵ | | | | |
| DELAC | NELAC FDD (Type) | □ Omer | | 10 | - Zes | 1 NO 2 C | 3E \ | ЭВЭ | | | | O ³ ' | | | | |
| | | | | Cooler Temp(Including CF): | noluding CF): 2 | .6-0-2-6 | 3TM | 2D(| | | | | | | | |
| ote ote | T. | 7.1.2.4.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2 | Samo No No No No No No No No No No No No No | Container | Preservative Type | HEAL N | \ X∃T | 108:Hq | 94 180 | M) 80. (d sHA | 8 ARD | | V) 09Z | 270 (Sa otal Co | | |
| | 11:55 | Soil | | i | | 7.505543 | × | 1 × | \perp | | | | | | | |
| 05/09/23 | 12:00 | Soil | BH22-29.2' | 1, 4oz jar | | 27.6 | × | × | | | <u> </u> | × | | | | |
| 05/09/23 | | Soil | BH22-29 4' | 1, 4oz jar | | 027 | × | × | | | | × | | | | |
| 05/09/23 | 12:20 | Soil | BH22-30 0' | 1, 4oz jar | | 820 | × | × | | | | × | | | | |
| 05/09/23 | 12:25 | Soil | BH22-30 2' | 1, 4oz jar | | 620 | × | × | | | | × | | | | |
| 05/09/23 | 12:30 | Soil | BH22-30.3' | 1, 4oz jar | | 0.30 | × | × | | | | × | | | | |
| 05/09/23 | | Soil | BH22-31.0' | 1, 4oz jar | | 03) | × | × | | | | × | | | | |
| 05/09/23 | 12:45 | Soil | BH22-31·2' | 1, 4oz jar | | 250 | × | × | | | | × | | | | |
| 05/09/23 | 12:50 | Soil | BH22-31 3.5' | 1, 4oz jar | | 033 | × | × | | | | × | | | | |
| | | | | | | | | | | \dashv | | | | | | |
| | | | | | | | | | \dashv | | | | 1 | | | I |
| | | | | | | | | | - | | | | \dashv | 4 | | |
| S-10-23 | Time: | Relinquished the | ed the | Received by: | , \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 5/10/33 700 | S = | Remarks: Direct bill | ;; to [| evoi | Da, | Remarks: Direct bill to Devon, Dale Woodall | odal | | | |
| | l | Relinquished by | ed by: | Received by: | Via: | Date Time | _ | KStall | 26 10 10 10 10 10 10 10 10 10 10 10 10 10 | (Ω\ (Ω) | o.xai | <u>0</u> | | cc. Kstallings@vertex.ca for rinal Keport | 3/3 | |
| - KAR. | 1900 Finecessary. | samples submitte | 1900 (MMM) Interpretation of the properties submitted to Hall Environmental may be subcontracted to other accretited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. | ontracted to other ac | F CUUNTE | es. This serves as notice of this | sood si | ibility. A | -qns ۸u | contract | ed dat | a will be | clearly | notated or | the analytical report. | |
| | • | | | , | | | | | | | | | | | | |

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.



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

May 23, 2023

Kent Stallings Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

FAX:

RE: Cotton Draw Unit 1 12 CTB OrderNo.: 2305494

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 24 sample(s) on 5/10/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-13 0 '

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 11:20:00 AM

 Lab ID:
 2305494-001
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

| Analyses | Result | RL Qua | d Units | DF | Date Analyzed |
|---------------------------------------|--------|----------|---------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 5/12/2023 11:34:20 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/12/2023 11:34:20 PM |
| Surr: DNOP | 112 | 69-147 | %Rec | 1 | 5/12/2023 11:34:20 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/13/2023 12:42:55 AM |
| Surr: BFB | 68.4 | 15-244 | %Rec | 1 | 5/13/2023 12:42:55 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/13/2023 12:42:55 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/13/2023 12:42:55 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/13/2023 12:42:55 AM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/13/2023 12:42:55 AM |
| Surr: 4-Bromofluorobenzene | 82.7 | 39.1-146 | %Rec | 1 | 5/13/2023 12:42:55 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JMT |
| Chloride | 270 | 60 | mg/Kg | 20 | 5/16/2023 12:06:12 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 31

Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-13 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 11:25:00 AM

 Lab ID:
 2305494-002
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 5/12/2023 11:45:07 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/12/2023 11:45:07 PM Surr: DNOP 69-147 %Rec 1 5/12/2023 11:45:07 PM 116 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/13/2023 1:53:20 AM 4.8 mg/Kg 1 Surr: BFB 66.8 15-244 %Rec 1 5/13/2023 1:53:20 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/13/2023 1:53:20 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 5/13/2023 1:53:20 AM Ethylbenzene ND 0.048 mg/Kg 1 5/13/2023 1:53:20 AM Xylenes, Total ND 0.096 mg/Kg 5/13/2023 1:53:20 AM 1 Surr: 4-Bromofluorobenzene 82.1 39.1-146 %Rec 1 5/13/2023 1:53:20 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride mg/Kg 5/16/2023 12:18:32 AM 240 60 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 31

Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-13 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 11:30:00 AM

 Lab ID:
 2305494-003
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: **DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 5/13/2023 12:06:40 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 5/13/2023 12:06:40 AM Surr: DNOP 84.0 69-147 %Rec 1 5/13/2023 12:06:40 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 4.7 5/13/2023 3:03:49 AM mg/Kg 1 Surr: BFB 70.8 15-244 %Rec 1 5/13/2023 3:03:49 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/13/2023 3:03:49 AM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 5/13/2023 3:03:49 AM Ethylbenzene ND 0.047 mg/Kg 1 5/13/2023 3:03:49 AM Xylenes, Total ND 0.094 mg/Kg 1 5/13/2023 3:03:49 AM Surr: 4-Bromofluorobenzene 82.8 39.1-146 %Rec 1 5/13/2023 3:03:49 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride mg/Kg 5/16/2023 12:30:52 AM 470 60 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

rting Limit Page 3 of 31

Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-14 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 11:40:00 AM

 Lab ID:
 2305494-004
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: **DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 5/13/2023 12:17:29 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/13/2023 12:17:29 AM Surr: DNOP 84.4 69-147 %Rec 1 5/13/2023 12:17:29 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/13/2023 3:27:20 AM 4.9 mg/Kg 1 Surr: BFB 68.6 15-244 %Rec 1 5/13/2023 3:27:20 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/13/2023 3:27:20 AM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/13/2023 3:27:20 AM Ethylbenzene ND 0.049 mg/Kg 1 5/13/2023 3:27:20 AM Xylenes, Total ND 0.098 mg/Kg 5/13/2023 3:27:20 AM 1 Surr: 4-Bromofluorobenzene 82.5 39.1-146 %Rec 1 5/13/2023 3:27:20 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride mg/Kg 5/16/2023 1:07:53 AM ND 60 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-14 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 11:45:00 AM

 Lab ID:
 2305494-005
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: **DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 5/13/2023 12:28:20 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/13/2023 12:28:20 AM Surr: DNOP 87.8 69-147 %Rec 1 5/13/2023 12:28:20 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/13/2023 3:50:49 AM 4.8 mg/Kg 1 Surr: BFB 81.2 15-244 %Rec 1 5/13/2023 3:50:49 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/13/2023 3:50:49 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 5/13/2023 3:50:49 AM Ethylbenzene ND 0.048 mg/Kg 1 5/13/2023 3:50:49 AM Xylenes, Total ND 0.097 mg/Kg 1 5/13/2023 3:50:49 AM Surr: 4-Bromofluorobenzene 85.6 39.1-146 %Rec 1 5/13/2023 3:50:49 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride mg/Kg 5/16/2023 1:20:14 AM ND 60 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-14 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 11:50:00 AM

 Lab ID:
 2305494-006
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/13/2023 12:39:12 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/13/2023 12:39:12 AM |
| Surr: DNOP | 88.4 | 69-147 | %Rec | 1 | 5/13/2023 12:39:12 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/13/2023 4:14:20 AM |
| Surr: BFB | 67.9 | 15-244 | %Rec | 1 | 5/13/2023 4:14:20 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/13/2023 4:14:20 AM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/13/2023 4:14:20 AM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/13/2023 4:14:20 AM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/13/2023 4:14:20 AM |
| Surr: 4-Bromofluorobenzene | 83.3 | 39.1-146 | %Rec | 1 | 5/13/2023 4:14:20 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JMT |
| Chloride | ND | 60 | mg/Kg | 20 | 5/16/2023 1:32:35 AM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Benzene

Toluene

Chloride

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Analytical ReportLab Order **2305494**

Date Reported: 5/23/2023

5/13/2023 4:37:44 AM

5/16/2023 12:51:10 PM

Analyst: NAI

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-15 0th

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 12:05:00 PM

 Lab ID:
 2305494-007
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) 5600 99 mg/Kg 10 5/15/2023 11:59:01 AM Motor Oil Range Organics (MRO) 2600 490 mg/Kg 10 5/15/2023 11:59:01 AM Surr: DNOP 0 69-147 S %Rec 10 5/15/2023 11:59:01 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/13/2023 4:37:44 AM 4.8 mg/Kg 1 Surr: BFB 66.1 15-244 %Rec 1 5/13/2023 4:37:44 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP

ND

ND

ND

ND

83.2

ND

0.024

0.048

0.048

0.097

60

39.1-146

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

mg/Kg

1

1

1

1

1

20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-15 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 12:10:00 PM

 Lab ID:
 2305494-008
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/13/2023 1:00:58 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/13/2023 1:00:58 AM |
| Surr: DNOP | 101 | 69-147 | %Rec | 1 | 5/13/2023 1:00:58 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/13/2023 5:01:09 AM |
| Surr: BFB | 75.6 | 15-244 | %Rec | 1 | 5/13/2023 5:01:09 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/13/2023 5:01:09 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/13/2023 5:01:09 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/13/2023 5:01:09 AM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/13/2023 5:01:09 AM |
| Surr: 4-Bromofluorobenzene | 86.1 | 39.1-146 | %Rec | 1 | 5/13/2023 5:01:09 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: NAI |
| Chloride | ND | 60 | mg/Kg | 20 | 5/16/2023 1:03:35 PM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-15 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 12:15:00 PM

 Lab ID:
 2305494-009
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 5/13/2023 1:11:52 AM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/13/2023 1:11:52 AM |
| Surr: DNOP | 84.2 | 69-147 | %Rec | 1 | 5/13/2023 1:11:52 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/13/2023 5:24:33 AM |
| Surr: BFB | 76.7 | 15-244 | %Rec | 1 | 5/13/2023 5:24:33 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/13/2023 5:24:33 AM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/13/2023 5:24:33 AM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/13/2023 5:24:33 AM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/13/2023 5:24:33 AM |
| Surr: 4-Bromofluorobenzene | 85.0 | 39.1-146 | %Rec | 1 | 5/13/2023 5:24:33 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: NAI |
| Chloride | ND | 59 | mg/Kg | 20 | 5/16/2023 2:05:37 PM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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EPA METHOD 300.0: ANIONS

Chloride

Analytical Report Lab Order 2305494

Date Reported: 5/23/2023

Analyst: NAI

5/16/2023 2:18:01 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-16 0

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 12:30:00 PM

 Lab ID:
 2305494-010
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: **DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 5/13/2023 1:22:45 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/13/2023 1:22:45 AM Surr: DNOP 79.6 69-147 %Rec 1 5/13/2023 1:22:45 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/13/2023 5:47:54 AM 4.9 mg/Kg 1 Surr: BFB 81.7 15-244 %Rec 1 5/13/2023 5:47:54 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/13/2023 5:47:54 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/13/2023 5:47:54 AM Ethylbenzene ND 0.049 mg/Kg 1 5/13/2023 5:47:54 AM Xylenes, Total ND 0.098 mg/Kg 5/13/2023 5:47:54 AM 1 Surr: 4-Bromofluorobenzene 86.6 39.1-146 %Rec 1 5/13/2023 5:47:54 AM

ND

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

mg/Kg

20

60

- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-16 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 12:35:00 PM

 Lab ID:
 2305494-011
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 5/13/2023 1:33:40 AM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/13/2023 1:33:40 AM |
| Surr: DNOP | 88.3 | 69-147 | %Rec | 1 | 5/13/2023 1:33:40 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/13/2023 6:34:28 AM |
| Surr: BFB | 83.8 | 15-244 | %Rec | 1 | 5/13/2023 6:34:28 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/13/2023 6:34:28 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/13/2023 6:34:28 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/13/2023 6:34:28 AM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/13/2023 6:34:28 AM |
| Surr: 4-Bromofluorobenzene | 88.3 | 39.1-146 | %Rec | 1 | 5/13/2023 6:34:28 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: NAI |
| Chloride | ND | 60 | mg/Kg | 20 | 5/16/2023 2:30:25 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-16 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 12:40:00 PM

 Lab ID:
 2305494-012
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 5/13/2023 1:44:35 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/13/2023 1:44:35 AM |
| Surr: DNOP | 95.8 | 69-147 | %Rec | 1 | 5/13/2023 1:44:35 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/13/2023 6:57:50 AM |
| Surr: BFB | 69.0 | 15-244 | %Rec | 1 | 5/13/2023 6:57:50 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/13/2023 6:57:50 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/13/2023 6:57:50 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/13/2023 6:57:50 AM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/13/2023 6:57:50 AM |
| Surr: 4-Bromofluorobenzene | 83.0 | 39.1-146 | %Rec | 1 | 5/13/2023 6:57:50 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: NAI |
| Chloride | ND | 60 | mg/Kg | 20 | 5/16/2023 2:42:50 PM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 12 of 31

Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-17 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 2:30:00 PM

 Lab ID:
 2305494-013
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 5/13/2023 2:06:23 AM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/13/2023 2:06:23 AM |
| Surr: DNOP | 90.4 | 69-147 | %Rec | 1 | 5/13/2023 2:06:23 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/13/2023 7:21:17 AM |
| Surr: BFB | 60.8 | 15-244 | %Rec | 1 | 5/13/2023 7:21:17 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/13/2023 7:21:17 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/13/2023 7:21:17 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/13/2023 7:21:17 AM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/13/2023 7:21:17 AM |
| Surr: 4-Bromofluorobenzene | 81.5 | 39.1-146 | %Rec | 1 | 5/13/2023 7:21:17 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: NAI |
| Chloride | ND | 60 | mg/Kg | 20 | 5/16/2023 2:55:14 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2305494-014

Lab ID:

Chloride

Analytical ReportLab Order **2305494**

Received Date: 5/10/2023 7:40:00 AM

Date Reported: 5/23/2023

5/16/2023 3:07:39 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-17 2'

Matrix: SOIL

Project: Cotton Draw Unit 1 12 CTB Collection Date: 5/8/2023 2:35:00 PM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: **DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.3 mg/Kg 1 5/13/2023 2:17:27 AM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 5/13/2023 2:17:27 AM Surr: DNOP 69-147 %Rec 1 5/13/2023 2:17:27 AM 118 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/13/2023 7:44:45 AM 4.8 mg/Kg 1 Surr: BFB 72.5 15-244 %Rec 1 5/13/2023 7:44:45 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/13/2023 7:44:45 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 5/13/2023 7:44:45 AM Ethylbenzene ND 0.048 mg/Kg 1 5/13/2023 7:44:45 AM Xylenes, Total ND 0.096 mg/Kg 1 5/13/2023 7:44:45 AM Surr: 4-Bromofluorobenzene 83.8 39.1-146 %Rec 1 5/13/2023 7:44:45 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI

ND

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

mg/Kg

20

60

- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-17 4'

Project: Cotton Draw Unit 1 12 CTB Collection Date: 5/8/2023 2:40:00 PM

Lab ID: 2305494-015 **Matrix:** SOIL **Received Date:** 5/10/2023 7:40:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|---------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OF | RGANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/13/2023 2:28:29 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/13/2023 2:28:29 AM |
| Surr: DNOP | 88.3 | 69-147 | %Rec | 1 | 5/13/2023 2:28:29 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/13/2023 8:08:16 AM |
| Surr: BFB | 74.7 | 15-244 | %Rec | 1 | 5/13/2023 8:08:16 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/13/2023 8:08:16 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/13/2023 8:08:16 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/13/2023 8:08:16 AM |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 5/13/2023 8:08:16 AM |
| Surr: 4-Bromofluorobenzene | 85.6 | 39.1-146 | %Rec | 1 | 5/13/2023 8:08:16 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: NAI |
| Chloride | ND | 60 | mg/Kg | 20 | 5/16/2023 3:20:04 PM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-18 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 2:45:00 PM

 Lab ID:
 2305494-016
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | 180 | 9.9 | mg/Kg | 1 | 5/13/2023 2:39:30 AM |
| Motor Oil Range Organics (MRO) | 290 | 49 | mg/Kg | 1 | 5/13/2023 2:39:30 AM |
| Surr: DNOP | 100 | 69-147 | %Rec | 1 | 5/13/2023 2:39:30 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/13/2023 8:31:45 AM |
| Surr: BFB | 60.4 | 15-244 | %Rec | 1 | 5/13/2023 8:31:45 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/13/2023 8:31:45 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/13/2023 8:31:45 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/13/2023 8:31:45 AM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/13/2023 8:31:45 AM |
| Surr: 4-Bromofluorobenzene | 81.5 | 39.1-146 | %Rec | 1 | 5/13/2023 8:31:45 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: NAI |
| Chloride | ND | 60 | mg/Kg | 20 | 5/16/2023 3:32:28 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-18 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 2:50:00 PM

 Lab ID:
 2305494-017
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.3 | mg/Kg | 1 | 5/13/2023 2:50:31 AM |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 5/13/2023 2:50:31 AM |
| Surr: DNOP | 105 | 69-147 | %Rec | 1 | 5/13/2023 2:50:31 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/13/2023 8:55:10 AM |
| Surr: BFB | 68.2 | 15-244 | %Rec | 1 | 5/13/2023 8:55:10 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/13/2023 8:55:10 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/13/2023 8:55:10 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/13/2023 8:55:10 AM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 5/13/2023 8:55:10 AM |
| Surr: 4-Bromofluorobenzene | 83.4 | 39.1-146 | %Rec | 1 | 5/13/2023 8:55:10 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: NAI |
| Chloride | ND | 60 | mg/Kg | 20 | 5/16/2023 4:09:41 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ting Limit Page 17 of 31

Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-18 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 2:55:00 PM

 Lab ID:
 2305494-018
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/13/2023 3:01:30 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/13/2023 3:01:30 AM |
| Surr: DNOP | 96.8 | 69-147 | %Rec | 1 | 5/13/2023 3:01:30 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/13/2023 9:18:30 AM |
| Surr: BFB | 72.0 | 15-244 | %Rec | 1 | 5/13/2023 9:18:30 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/13/2023 9:18:30 AM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/13/2023 9:18:30 AM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/13/2023 9:18:30 AM |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 5/13/2023 9:18:30 AM |
| Surr: 4-Bromofluorobenzene | 84.4 | 39.1-146 | %Rec | 1 | 5/13/2023 9:18:30 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: NAI |
| Chloride | 170 | 60 | mg/Kg | 20 | 5/16/2023 4:22:05 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-19 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 3:00:00 PM

 Lab ID:
 2305494-019
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 5/13/2023 3:12:28 AM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/13/2023 3:12:28 AM |
| Surr: DNOP | 89.8 | 69-147 | %Rec | 1 | 5/13/2023 3:12:28 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/13/2023 9:41:53 AM |
| Surr: BFB | 89.8 | 15-244 | %Rec | 1 | 5/13/2023 9:41:53 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/13/2023 9:41:53 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/13/2023 9:41:53 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/13/2023 9:41:53 AM |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 5/13/2023 9:41:53 AM |
| Surr: 4-Bromofluorobenzene | 88.0 | 39.1-146 | %Rec | 1 | 5/13/2023 9:41:53 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: NAI |
| Chloride | ND | 60 | mg/Kg | 20 | 5/16/2023 4:34:29 PM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-19 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 3:05:00 PM

 Lab ID:
 2305494-020
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 5/13/2023 3:23:25 AM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 5/13/2023 3:23:25 AM |
| Surr: DNOP | 91.1 | 69-147 | %Rec | 1 | 5/13/2023 3:23:25 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/13/2023 10:05:11 AM |
| Surr: BFB | 72.3 | 15-244 | %Rec | 1 | 5/13/2023 10:05:11 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/13/2023 10:05:11 AM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/13/2023 10:05:11 AM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/13/2023 10:05:11 AM |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 5/13/2023 10:05:11 AM |
| Surr: 4-Bromofluorobenzene | 84.5 | 39.1-146 | %Rec | 1 | 5/13/2023 10:05:11 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: NAI |
| Chloride | ND | 60 | mg/Kg | 20 | 5/16/2023 4:46:54 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-19 3.5

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 3:10:00 PM

 Lab ID:
 2305494-021
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 10 mg/Kg 1 5/12/2023 7:46:05 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 5/12/2023 7:46:05 PM Surr: DNOP 88.4 69-147 %Rec 1 5/12/2023 7:46:05 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 5/16/2023 2:24:00 AM 5.0 mg/Kg 1 Surr: BFB 85.1 15-244 %Rec 1 5/16/2023 2:24:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 5/16/2023 2:24:00 AM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 5/16/2023 2:24:00 AM Ethylbenzene ND 0.050 mg/Kg 1 5/16/2023 2:24:00 AM Xylenes, Total ND mg/Kg 5/16/2023 2:24:00 AM 0.099 1 Surr: 4-Bromofluorobenzene 85.0 39.1-146 %Rec 1 5/16/2023 2:24:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 5/16/2023 4:59:19 PM ND 60 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-20 0

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 3:20:00 PM

 Lab ID:
 2305494-022
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) 3000 100 mg/Kg 10 5/12/2023 4:42:14 PM Motor Oil Range Organics (MRO) 1900 500 mg/Kg 10 5/12/2023 4:42:14 PM Surr: DNOP 0 69-147 S %Rec 10 5/12/2023 4:42:14 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 5/16/2023 3:29:00 AM 4.9 mg/Kg 1 Surr: BFB 87.8 15-244 %Rec 1 5/16/2023 3:29:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 5/16/2023 3:29:00 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/16/2023 3:29:00 AM Ethylbenzene ND 0.049 mg/Kg 1 5/16/2023 3:29:00 AM Xylenes, Total ND 0.099 mg/Kg 1 5/16/2023 3:29:00 AM Surr: 4-Bromofluorobenzene 83.3 39.1-146 %Rec 1 5/16/2023 3:29:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 5/16/2023 5:11:44 PM ND 60 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-20 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 3:25:00 PM

 Lab ID:
 2305494-023
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 5/12/2023 8:07:49 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 5/12/2023 8:07:49 PM Surr: DNOP 88.1 69-147 %Rec 1 5/12/2023 8:07:49 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 5/16/2023 4:34:00 AM 4.9 mg/Kg 1 Surr: BFB 86.0 15-244 %Rec 1 5/16/2023 4:34:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 5/16/2023 4:34:00 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/16/2023 4:34:00 AM Ethylbenzene ND 0.049 mg/Kg 1 5/16/2023 4:34:00 AM Xylenes, Total ND 0.099 mg/Kg 5/16/2023 4:34:00 AM 1 Surr: 4-Bromofluorobenzene 84.3 39.1-146 %Rec 1 5/16/2023 4:34:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 5/16/2023 5:24:09 PM ND 60 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/23/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-20 3.5'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/8/2023 3:30:00 PM

 Lab ID:
 2305494-024
 Matrix: SOIL
 Received Date: 5/10/2023 7:40:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|---------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | 11 | 9.2 | mg/Kg | 1 | 5/12/2023 8:18:47 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 5/12/2023 8:18:47 PM |
| Surr: DNOP | 90.6 | 69-147 | %Rec | 1 | 5/12/2023 8:18:47 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: CCM |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/16/2023 4:56:00 AM |
| Surr: BFB | 85.7 | 15-244 | %Rec | 1 | 5/16/2023 4:56:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: CCM |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/16/2023 4:56:00 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/16/2023 4:56:00 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/16/2023 4:56:00 AM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 5/16/2023 4:56:00 AM |
| Surr: 4-Bromofluorobenzene | 85.4 | 39.1-146 | %Rec | 1 | 5/16/2023 4:56:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: NAI |
| Chloride | 430 | 60 | mg/Kg | 20 | 5/16/2023 5:36:33 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305494**

23-May-23

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

Sample ID: MB-74968 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 74968 RunNo: 96777

Prep Date: 5/15/2023 Analysis Date: 5/15/2023 SeqNo: 3509658 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-74968 SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 74968 RunNo: 96777 Prep Date: 5/15/2023 Analysis Date: 5/15/2023 SeqNo: 3509659 Units: mg/Kg **RPDLimit** Result **PQL** SPK value SPK Ref Val %REC LowLimit %RPD Qual

 Analyte
 Result
 PQL
 SPK value
 SPK Ref Val
 %REC
 LowLimit
 HighLimit

 Chloride
 14
 1.5
 15.00
 0
 93.9
 90
 110

Sample ID: MB-74979 TestCode: EPA Method 300.0: Anions SampType: mblk Client ID: PBS Batch ID: 74979 RunNo: 96806 Units: mg/Kg Prep Date: Analysis Date: 5/16/2023 SeqNo: 3511156 5/16/2023 Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit

Chloride ND 1.5

Sample ID: LCS-74979 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 74979 RunNo: 96806

Prep Date: 5/16/2023 Analysis Date: 5/16/2023 SeqNo: 3511157 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte LowLimit Chloride 14 1.5 15.00 n 92.6 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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305494**

23-May-23

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

| Project: Cotton D | raw Unit 1 | 1 12 CT | Ь | | | | | | | | | |
|--------------------------------|----------------|--------------------------------------|-----------|-------------|-----------------------------|-----------|--------------|-----------|--------------|------|--|--|
| Sample ID: 2305494-002AMS | Samp | Туре: МЅ | ; | Tes | tCode: El | PA Method | 8015M/D: Die | sel Range | Organics | | | |
| Client ID: BH23-13 2' | Batcl | h ID: 74 8 | 390 | F | RunNo: 9 | 6715 | | | | | | |
| Prep Date: 5/11/2023 | Analysis [|)ate: 5/ | 13/2023 | 5 | SeqNo: 3 | 508330 | Units: mg/K | ζg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| Diesel Range Organics (DRO) | 42 | 9.8 | 48.92 | 0 | 85.9 | 54.2 | 135 | | | | | |
| Surr: DNOP | 4.4 | | 4.892 | | 90.7 | 69 | 147 | | | | | |
| Sample ID: 2305494-002AMSI | o Samp1 | Туре: М S | SD . | Tes | tCode: El | PA Method | 8015M/D: Die | sel Range | Organics | | | |
| Client ID: BH23-13 2' | Batcl | Batch ID: 74890 Ru | | | | 6715 | | | | | | |
| Prep Date: 5/11/2023 | Analysis [|)ate: 5/ | 13/2023 | 5 | SeqNo: 3 | 508331 | Units: mg/K | (g | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| Diesel Range Organics (DRO) | 42 | 10 | 49.95 | 0 | 83.5 | 54.2 | 135 | 0.677 | 29.2 | | | |
| Surr: DNOP | 4.4 | | 4.995 | | 87.7 | 69 | 147 | 0 | 0 | | | |
| Sample ID: LCS-74890 | Samp1 | SampType: LCS TestCode: EPA Method 8 | | | | | 8015M/D: Die | sel Range | Organics | | | |
| Client ID: LCSS | Batcl | Batch ID: 74890 | | | RunNo: 9 | 6715 | | | | | | |
| Prep Date: 5/11/2023 | Analysis [| Analysis Date: 5/12/2023 | | | SeqNo: 3508384 Units | | | | Inits: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| Diesel Range Organics (DRO) | 45 | 10 | 50.00 | 0 | 89.4 | 61.9 | 130 | | | | | |
| Surr: DNOP | 4.6 | | 5.000 | | 92.8 | 69 | 147 | | | | | |
| Sample ID: LCS-74902 | Samp | Туре: LC | s | Tes | tCode: El | PA Method | 8015M/D: Die | sel Range | Organics | | | |
| Client ID: LCSS | Batcl | h ID: 74 9 | 902 | F | RunNo: 9 | 6715 | | | | | | |
| Prep Date: 5/11/2023 | Analysis [| Date: 5/ | 12/2023 | 9 | SeqNo: 3 | 508385 | Units: mg/K | (g | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| Diesel Range Organics (DRO) | 44 | 10 | 50.00 | 0 | 88.0 | 61.9 | 130 | | | | | |
| Surr: DNOP | 4.4 | | 5.000 | | 88.6 | 69 | 147 | | | | | |
| Sample ID: MB-74890 | Samp | Туре: МЕ | BLK | Tes | tCode: El | PA Method | 8015M/D: Die | sel Range | Organics | | | |
| Client ID: PBS | Batcl | h ID: 74 8 | 390 | F | RunNo: 9 | 6715 | | | | | | |
| Prep Date: 5/11/2023 | Analysis [| Date: 5/ | 12/2023 | S | SeqNo: 3 | 508386 | Units: mg/K | (g | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | | | |
| Surr: DNOP | 11 | | 10.00 | | 114 | 69 | 147 | | | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

8.2

2305494 23-May-23

WO#:

Client: Vertex Resources Services, Inc. **Project:** Cotton Draw Unit 1 12 CTB

Sample ID: MB-74902 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 74902 RunNo: 96715 Prep Date: 5/11/2023 Analysis Date: 5/12/2023 SeqNo: 3508387 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50

10.00

82.2

69

147

Surr: DNOP

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305494**

23-May-23

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

| Troject. | | aw Ollit 1 | | | | | | | | | | | |
|---------------|------------------|------------|-----------------|-----------|-------------|--|--|-------------|------------|----------|------|--|--|
| Sample ID: | lcs-74868 | SampT | ype: LC | S | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | | | | |
| Client ID: | LCSS | Batch | ID: 74 8 | 368 | F | RunNo: 96 | 6712 | | | | | | |
| Prep Date: | 5/10/2023 | Analysis D | ate: 5/ | 12/2023 | 8 | SeqNo: 35 | 508415 | Units: mg/K | (g | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| Gasoline Rang | e Organics (GRO) | 20 | 5.0 | 25.00 | 0 | 78.6 | 70 | 130 | | | | | |
| Surr: BFB | | 4600 | | 1000 | | 464 | 15 | 244 | | | S | | |
| Sample ID: | mb-74868 | SampT | уре: МЕ | BLK | Tes | tCode: EF | code: EPA Method 8015D: Gasoline Range | | | | | | |
| Client ID: | PBS | Batch | ID: 74 8 | 368 | F | RunNo: 96712 | | | | | | | |
| Prep Date: | 5/10/2023 | Analysis D | ate: 5/ | 13/2023 | 9 | SeqNo: 35 | 508416 | Units: mg/K | (g | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| Gasoline Rang | e Organics (GRO) | ND | 5.0 | | | | | | | | | | |
| Surr: BFB | | 630 | | 1000 | | 62.6 | 15 | 244 | | | | | |
| Sample ID: | 2305494-001ams | SampT | ype: MS | 6 | Tes | TestCode: EPA Method 8015D: Gasoline Range | | | | | | | |
| Client ID: | BH23-13 0 ' | Batch | ID: 74 8 | 368 | F | RunNo: 96712 | | | | | | | |
| Prep Date: | 5/10/2023 | Analysis D | ate: 5/ | 13/2023 | 5 | SeqNo: 35 | 508432 | Units: mg/K | ζg | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| | e Organics (GRO) | 19 | 4.9 | 24.49 | 0 | 78.3 | 70 | 130 | | | | | |
| Surr: BFB | | 4700 | | 979.4 | | 478 | 15 | 244 | | | S | | |
| Sample ID: | 2305494-001amsd | SampT | уре: МS | SD | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | | | | |
| Client ID: | BH23-13 0 ' | Batch | ID: 74 8 | 368 | F | RunNo: 96712 | | | | | | | |
| Prep Date: | 5/10/2023 | Analysis D | ate: 5/ | 13/2023 | 8 | SeqNo: 35 | 508433 | Units: mg/K | (g | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| _ | e Organics (GRO) | 19 | 4.9 | 24.49 | 0 | 77.1 | 70 | 130 | 1.54 | 20 | | | |
| Surr: BFB | | 4500 | | 979.4 | | 463 | 15 | 244 | 0 | 0 | S | | |
| Sample ID: | LCS-74888 | SampT | ype: LC | s | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | | | | |
| Client ID: | LCSS | Batch | ID: 74 8 | 388 | F | RunNo: 96 | 6758 | | | | | | |
| Prep Date: | 5/11/2023 | Analysis D | ate: 5/ | 16/2023 | 8 | SeqNo: 35 | 509411 | Units: mg/K | (g | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| _ | e Organics (GRO) | 19 | 5.0 | 25.00 | 0 | 77.2 | 70 | 130 | | | | | |
| Surr: BFB | | 1900 | | 1000 | | 194 | 15 | 244 | | | | | |
| Sample ID: | MB-74888 | SampT | ype: ME | BLK | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | | | | |
| Client ID: | PBS | Batch | ID: 74 8 | 388 | F | RunNo: 96758 | | | | | | | |
| Prep Date: | 5/11/2023 | Analysis D | ate: 5/ | 16/2023 | \$ | SeqNo: 35 | 509412 | Units: mg/K | (g | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2305494 23-May-23

Client: Vertex Resources Services, Inc. **Project:** Cotton Draw Unit 1 12 CTB

Sample ID: MB-74888 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

PBS Client ID: Batch ID: 74888 RunNo: 96758

Prep Date: 5/11/2023 Analysis Date: 5/16/2023 SeqNo: 3509412 Units: mq/Kq

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

Gasoline Range Organics (GRO) ND 5.0

Sample ID: 2305494-021AMSD

Surr: BFB 860 1000 86.5 15 244

Sample ID: 2305494-021AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: BH23-19 3.5' Batch ID: 74888 RunNo: 96798

Prep Date: Analysis Date: 5/16/2023 SeqNo: 3510971 5/11/2023 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 4.9 24.73 67.4 70 S

TestCode: EPA Method 8015D: Gasoline Range

989.1 Surr: BFB 1800 178 15 244

SampType: MSD Client ID: BH23-19 3.5 Batch ID: 74888 RunNo: 96798

Prep Date: 5/11/2023 Analysis Date: 5/16/2023 SeqNo: 3510972 Units: mg/Kg

HighLimit %RPD SPK value SPK Ref Val %REC **RPDLimit** Analyte Result POI LowLimit Qual Gasoline Range Organics (GRO) 16 5.0 24.90 64.5 70 130 3.79 20 Surr: BFB 1800 996.0 0 178 15 244 0

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank

Е Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 29 of 31

Hall Environmental Analysis Laboratory, Inc.

WO#: **2305494**

23-May-23

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: LCS-74868 | SampT | SampType: LCS TestCode: EPA Method | | | | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|---|-----------|-----------------------|------|-----------|---------------|------|----------|------|
| Client ID: LCSS | Batcl | Batch ID: 74868 RunNo: 9671 | | | | 6712 | | | | |
| Prep Date: 5/10/2023 | Analysis D | Date: 5/ 1 | 12/2023 | SeqNo: 3508463 | | | Units: mg/K | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.74 | 0.025 | 1.000 | 0 | 74.0 | 70 | 130 | | | |
| Toluene | 0.78 | 0.050 | 1.000 | 0 | 78.2 | 70 | 130 | | | |
| Ethylbenzene | 0.79 | 0.050 | 1.000 | 0 | 78.7 | 70 | 130 | | | |
| Xylenes, Total | 2.4 | 0.10 | 3.000 | 0 | 79.1 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.85 | | 1.000 | | 85.0 | 39.1 | 146 | | | |

| Sample ID: mb-74868 | SampT | уре: МЕ | BLK | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: PBS | Batch | n ID: 748 | 368 | F | RunNo: 96 | 6712 | | | | |
| Prep Date: 5/10/2023 | Analysis D | oate: 5/ | 13/2023 | 5 | SeqNo: 3 | 508464 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.81 | | 1.000 | | 81.1 | 39.1 | 146 | | | |

| Sample ID: 2305494-002ams | Samp ⁻ | Туре: МЅ | ; | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|-------------------|-------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: BH23-13 2' | Batc | h ID: 74 8 | 368 | F | RunNo: 90 | 6712 | | | | |
| Prep Date: 5/10/2023 | Analysis [| Date: 5/ | 13/2023 | 5 | SeqNo: 3 | 508467 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.72 | 0.024 | 0.9542 | 0 | 75.0 | 70 | 130 | | | |
| Toluene | 0.76 | 0.048 | 0.9542 | 0.01598 | 78.5 | 70 | 130 | | | |
| Ethylbenzene | 0.78 | 0.048 | 0.9542 | 0 | 81.6 | 70 | 130 | | | |
| Xylenes, Total | 2.3 | 0.095 | 2.863 | 0 | 81.8 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.80 | | 0.9542 | | 84.2 | 39.1 | 146 | | | |

| Sample ID: 2305494-002amsd | SampT | ype: MS | D | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|-------------------|-----------|-------------|------------------|-----------|---------------|------|----------|------|
| Client ID: BH23-13 2' | Batch | n ID: 748 | 68 | F | RunNo: 96 | 6712 | | | | |
| Prep Date: 5/10/2023 | Analysis D | Date: 5/ 1 | 13/2023 | 5 | SeqNo: 3 | 508468 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.67 | 0.024 | 0.9551 | 0 | 70.3 | 70 | 130 | 6.30 | 20 | |
| Toluene | 0.72 | 0.048 | 0.9551 | 0.01598 | 73.7 | 70 | 130 | 5.99 | 20 | |
| Ethylbenzene | 0.73 | 0.048 | 0.9551 | 0 | 76.2 | 70 | 130 | 6.71 | 20 | |
| Xylenes, Total | 2.2 | 0.096 | 2.865 | 0 | 76.9 | 70 | 130 | 6.12 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.82 | | 0.9551 | | 85.5 | 39.1 | 146 | 0 | 0 | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305494**

23-May-23

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: LCS-74888 | Samp1 | ype: LC | s | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: LCSS | Batcl | n ID: 748 | 388 | F | RunNo: 90 | 6758 | | | | |
| Prep Date: 5/11/2023 | Analysis D | Date: 5/ * | 16/2023 | 5 | SeqNo: 3 | 509464 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.90 | 0.025 | 1.000 | 0 | 90.4 | 70 | 130 | | | |
| Toluene | 0.89 | 0.050 | 1.000 | 0 | 89.3 | 70 | 130 | | | |
| Ethylbenzene | 0.87 | 0.050 | 1.000 | 0 | 86.5 | 70 | 130 | | | |
| Xylenes, Total | 2.6 | 0.10 | 3.000 | 0 | 85.6 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.86 | | 1.000 | | 85.7 | 39.1 | 146 | | | |

| Sample ID: MB-74888 | Samp | Гуре: МЕ | BLK | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: PBS | Batcl | h ID: 748 | 388 | F | RunNo: 90 | 6758 | | | | |
| Prep Date: 5/11/2023 | Analysis [| Date: 5/ | 16/2023 | 5 | SeqNo: 3 | 509465 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | _ | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.84 | | 1.000 | | 84.0 | 39.1 | 146 | | | |

| Sample ID: 2305494-022ams | Samp ⁻ | Type: MS | ; | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|-------------------|-------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: BH23-20 0' | Batc | h ID: 74 8 | 388 | F | RunNo: 90 | 6758 | | | | |
| Prep Date: 5/11/2023 | Analysis [| Date: 5/ | 16/2023 | 5 | SeqNo: 3 | 509468 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.84 | 0.025 | 0.9833 | 0 | 85.5 | 70 | 130 | | | |
| Toluene | 0.87 | 0.049 | 0.9833 | 0 | 88.6 | 70 | 130 | | | |
| Ethylbenzene | 0.86 | 0.049 | 0.9833 | 0 | 87.7 | 70 | 130 | | | |
| Xylenes, Total | 2.6 | 0.098 | 2.950 | 0 | 88.5 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.85 | | 0.9833 | | 86.2 | 39.1 | 146 | | | |

| Sample ID: 2305494-022amsd | SampT | ype: MS | D | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|------------------|-----------|-------------|------------------|-----------|---------------|------|----------|------|
| Client ID: BH23-20 0' | Batch | n ID: 748 | 888 | F | RunNo: 96 | 6758 | | | | |
| Prep Date: 5/11/2023 | Analysis D | ate: 5/ 1 | 16/2023 | 5 | SeqNo: 35 | 509469 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.86 | 0.025 | 0.9921 | 0 | 87.2 | 70 | 130 | 2.85 | 20 | |
| Toluene | 0.86 | 0.050 | 0.9921 | 0 | 86.5 | 70 | 130 | 1.59 | 20 | |
| Ethylbenzene | 0.84 | 0.050 | 0.9921 | 0 | 84.2 | 70 | 130 | 3.17 | 20 | |
| Xylenes, Total | 2.5 | 0.099 | 2.976 | 0 | 84.1 | 70 | 130 | 4.19 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.86 | | 0.9921 | | 86.6 | 39.1 | 146 | 0 | 0 | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Released to Imaging: 4/23/2025 2:19:30 PM

| | | | Website: w | ww.hallenvironmental | .com | | |
|---------------------------------|--------------------------------------|------------------|-----------------------|----------------------|---------------|----------------------------|----------------|
| Client Name: | Vertex Reso Services, In | | Work Order Nu | mber: 2305494 | | RcptNo: | 1 |
| Received By: | Tracy Casa | arrubias | 5/10/2023 7:40:0 | 00 AM | | | |
| Completed By | Tracy Casa | arrubias | 5/10/2023 8:19:0 | 4 AM | | | |
| Reviewed By: | KRU S | -10.2 | 3 | | | | |
| Chain of Cu | stody | | | | | | |
| 1. Is Chain of | Custody compl | ete? | | Yes 🗌 | No 🗹 | Not Present | |
| . How was th | e sample delive | ered? | | Courier | | | |
| <u>Log In</u> 3. Was an atte | empt made to co | ool the sample | es? | Yes 🗹 | No 🗆 | NA 🗌 | |
| 4. Were all sar | nples received | at a temperati | ure of >0° C to 6.0°C | Yes 🗹 | No 🗆 | na 🗆 | |
| 5. Sample(s) ii | n proper contail | ner(s)? | | Yes 🗹 | No 🗀 | | |
| ე. Sufficient sa | mple volume fo | or indicated tes | st(s)? | Yes 🗸 | No 🗌 | | |
| 7. Are samples | (except VOA a | and ONG) prop | perly preserved? | Yes 🗹 | No 🗌 | | |
| B. Was presen | ative added to | bottles? | | Yes | No 🗹 | NA 🗆 | |
| 9. Received at | least 1 vial with | n headspace < | 1/4" for AQ VOA? | Yes 🗌 | No 🗆 | NA 🗹 | |
| (), Were any sa | ample containe | rs received bro | oken? | Yes | No 🗹 | # of preserved | |
| | work match bott pancies on cha | | | Yes 🗹 | No 🗆 | bottles checked for pH: | 12 unless note |
| | correctly ident | - | of Custody? | Yes 🗹 | No 🗆 | Adjusted? | |
| | at analyses we | | • | Yes 🗹 | No 🗌 | | |
| 4. Were all hole | ding times able | to be met? | | Yes 🗹 | No 🗌 | Checked by: | |
| | customer for a | | | | Į. | / wo | 5/10/23 |
| | dling (if app notified of all dis | | ith this order? | Yes 🗌 | No 🗌 | NA 🗹 | |
| | n Notified: | | | | | | |
| By W | , | | Via | ite: | hone Fax | ☐ In Person | |
| Regai | | - | Via | a: | none Lax | ☐ III Lei20II | |
| - | | Mailing addres | ss, phone number and | Email are missing or | 1 COC- TMC 5/ | 10/23 | |
| 16. Additional i | | | | | | | |
| 7. <u>Cooler Inf</u> | | | | | | | |
| Cooler Into | 4 | Condition | Seal Intact Seal No | Seal Date | Signed By | | |
| 1 | 3.3 | | Yes Morty | | | | |

| Received IC | H.B. | 13042021 | Received CAGNIALON2CLISTANG ARECORD | Turn-Around Time: | | | | | | 2 | TD | Page 202 of 5 | 523 |
|----------------|------------------|------------------|---|--|--|--|---------------------|-------------------|-----------|----------------------------|---------------------------|---|----------|
| Client: | | Vertex | | X | Rush 5 Day | | V | ANAL | A | YSIS | | ABORATORY | _ |
| | | | (direct bill to Devon) | Project Name: | | | | W | v.halle | nviron | www.hallenvironmental.com | com | |
| Mailing, | Mailing Address: | ;; | | Cotton Draw Unit 1-12 CTB | -12 CTB | 46 | 01 Ha | 4901 Hawkins NE | 1 | Albuqu | erque, | Albuquerque, NM 87109 | |
| | | | | Project #: | | Ţ | el. 505 | Tel. 505-345-3975 | 975 | Гах | 505-345-4107 | 5-4107 | |
| Phone #: | ÷. | | | 23E-02423 | | | | | An | Analysis | Requ | st | |
| email or Fax#: | Fax#: | | | Project Manager: | | | | | | [‡] OS | (40.0 | (aus | _ |
| QA/QC Package: | ackage: | | | Kent Stallings | | | s'aC | SMI | , , | · 'ÞC | | | |
| ☐ Standard | dard | | ☐ Level 4 (Full Validation) | kstallings@vertex.ca | | |)d 7 | S02 | |)-l (| | 40416 | |
| Accreditation: | ation: | □ Az Co | mpliance | ان | an | | 2808 | | | ON | | | |
| NELAC | ِ ادِ | □ Other | | On Ice: W Yes | Arous ON [| | /sə | | | '£С | | | |
| | EDD (Type) | | | # of Coolers: | | | bioi | | | | √-ir | | |
| | | | | Cooler Temp(including Of | 7:3.3-8=3.3° | | itsə | | | | Sen | | |
| Date | Time | Matrix | Sample Name | Container Preservative Type and # Type | vative HEAL No. | X318 08:H9T | ∃ 1808 | N) 803 PAHs | АЯЭЯ | 85e0 (. Cl' <u>)</u> =' |) 0728 |) lstoT | |
| 05/08/23 | 11:20 | Soil | BH22-13 0' | 1, 4oz jar | (00) | × | | | | ١× | | | |
| 05/08/23 | 11:25 | Soil | BH22-13 2' | 1, 4oz jar | 200 | × | | | | × | | | |
| 05/08/23 | 11:30 | Soil | BH22-13 4' | 1, 4oz jar | 003 | × | | - | | × | | | |
| 05/08/23 | 11:40 | Soil | BH22-14 0' | 1, 4oz jar | M00 | × | | | | × | | | |
| 05/08/23 | 11:45 | Soil | BH22-14 2' | 1, 4oz jar | 000 | × | | | 2 | × | | | \dashv |
| 05/08/23 | 11:50 | Soil | BH22-14 4' | 1, 4oz jar | 300 | × | | | | × | | | _ |
| 05/08/23 | 12:05 | Soil | BH22-15 0' | 1, 4oz jar | 500 | × | | | | × | | | - |
| 05/08/23 | 12:10 | Soil | BH22-15 2' | 1, 4oz jar | ეეე | × | | 4 | | × | | | 4 |
| 05/08/23 | 12:15 | Soil | BH22-15 4' | 1, 4oz jar | 000 | × | | | | × | | | |
| 05/08/23 | 12:30 | Soil | BH22-16 0' | 1, 4oz jar | 010 | × | | | | × | | | _ |
| 05/08/23 | 12:35 | Soil | BH22-16 2' | 1, 4oz jar | 01(| × | | | | × | | | |
| 05/08/23 | 12:40 | Soil | BH22-16 4' | <u>.</u> | 210 | × | | | | × | | | _ |
| | İ | Relinquished by: | ied by: | Received by: Via: | ž. | Remarks | (S: | | . 6 | 14/00 | = | | |
| | | Salan | Malan | 3 | | Direct bill to Devon, Dale Woodall co. kstallings@vertex.ca for Final Report | oliii to allings | Devon @vert | ex.ca | wood for Fir | ıalı nal Rep | to to | |
| o fe | Time: | Relinquished by: | ned by: | Received by: Via: | Date Time | | • |) | | | | 5 | |
| 2913 | 1900 | CHUM | 3 | | 5/10/23 7.00 | | | | | | | 7) | |
| 2 | And a doctor a | dis solumes | benitted to Hall Environmental maybe subcontracted to the | redited | laboratories. This serves as notice of this possibility. | a possibility. | Any Sub | -contracte | א פובע עי | pe cle | rlv notated | Any sub-contracted data will be clearly notated on the analytical report. | |

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.

| Collect Vertex Vertex W. Standard of Rush C. D.M. Work Vertex Vertex | Received | 1436 | P-2270897 | Received Cyff Spy Left Sty Sty Mecord | Turn-Around Time: | Time: | | | | - | 2 | | 2 | QT. | MNC | Page | 203 of 5 |
|--|------------------|---------|---------------------|--|-------------------|----------------------|---|-------|---------|--------|------------------|----------|---------------|-------------|----------|------|----------|
| Cotton Draw Unit 1-12 CTB Project Name: | Client: | | Vertex | | X Standard | ∯ Rush | | | | | Z | 1 | SIS | 1 | BOR | AT | SRY |
| Matrix Soil Soil Soil Soil Soil Soil Soil Soil | | | | ll to Devon) | Project Name | | | | | _ | www | haller | viron | menta | .com | | |
| Soil Soil Soil Soil Soil Soil Soil Soil | Mailing , | Address | ;; | | Cotton Draw | Unit 1-12 CT | В | | 4901 | Hawk | ins N | - 1 | nbnqı | erque, | NM 8710 | 6 | |
| Dother Soil Soil Soil Soil Soil Soil Soil Soil | | | | | Project #: | | | | | 505-3 | 45-39 | | Fax | 505-3 | 15-4107 | | |
| Az Cor Matrix Soil Soil Soil Soil Soil Soil Soil Soil | Phone # | ٠,, | | | 23E-02423 | | | | | | | Ana | lysis | Redu | sst | | |
| Soil Soil Soil Soil Soil Soil Soil Soil | email or | Fax#: | | | Project Mana | ger: | | (1 | | | | VOS | | | hue | | |
| Dother Other Soil Soil Soil Soil Soil Soil Soil Soil | QA/QC F | ackage: | | | Kent Stallings | | | 802 | | 0.00 | SW | 3 .vC | | | esa. | | |
| Soil Soil Soil Soil Soil Soil Soil Soil | □ Stand | lard | | ☐ Level 4 (Full Validation) | kstallings@ve | rtex.ca | | s,e | | | ISO ₂ |)d ' | | | ·Λυί | | |
| Matrix Matrix Soil Soil Soil Soil Soil Soil Soil Soil | Accredit | ation: | □ Az Co | mpliance | | L.Pullman | | TME | | | 728 | | | | 959. | | |
| Soil Soil Soil Soil Soil Soil Soil Soil | □ NEL/ | Q | □ Other | William Control of the Control of th | | X Yes | | _ / : | | | 10 | | | | ارم) | | |
| Matrix Soil Soil Soil Soil Soil Soil Relinquishe | | (Type)_ | | | # of Coolers: | | | 38. | | | 018 | | | | <u>ш</u> | | |
| Matrix Soil Soil Soil Soil Soil Soil Soil Soil | | | | | Cooler Temp | 3 | 58.33 | TM | | | ,8 y | | | | OIIIO | | |
| Soil Soil Soil Soil Soil Soil Soil Soil | | T. | Motric Sinterior | Same Name Name | | Preservative Tvne | HEAL No. | \ X∃T | | | d sHA | | | | 0181 C | | |
| Soil Soil Soil Soil Soil Soil Soil Soil | | 14.20 | iou | BH22-17 0' | ı | | 1. C. | > | + | + | 1 | + | +- | | | | |
| Soil Soil Soil Soil Soil Soil Soil Soil | 05/08/23 | 14:35 | Soil | BH22-17 2' | 1. 40z jar | | OIY OIY | × | : × | | | × | _ | | | | |
| Soil Soil Soil Soil Soil Soil Soil Soil | 05/08/23 | 14:40 | Soil | BH22-17 4' | 1, 4oz jar | | 510 | × | × | | | × | | | | | |
| Soil Soil Soil Soil Soil Soil | 05/08/23 | 14:45 | Soil | BH22-18 0' | 1, 4oz jar | | 010 | × | × | | | × | | | | | |
| Soil Soil Soil Soil Soil Relinquish | 05/08/23 | 14:50 | Soil | BH22-18 2' | 1, 4oz jar | | 410 | × | × | | | × | | | | | |
| Soil Soil Soil Soil Soil Relinquishe | 05/08/23 | 14:55 | Soil | BH22-18 4' | 1, 4oz jar | | 910 | × | × | | | × | | | | | |
| Soil Soil Soil Soil Relinquishe | 05/08/23 | 15:00 | Soil | BH22-19 0' | 1, 4oz jar | | 610 | × | × | | | × | | | | | |
| Soil Soil Soil Relinquishe | 05/08/23 | 15:05 | Soil | BH22-19 2' | 1, 4oz jar | | 070 | × | × | | | × | | | | | |
| Soil Soil Relinguish | 05/08/23 | 15:10 | Soil | BH22-19 3.5' | 1, 4oz jar | | 129 | × | × | | | × | 35. c | | | | |
| Soil Soil Relinguishe | 05/08/23 | 15:20 | Soil | BH22-20 0' | 1, 4oz jar | | 220 | × | × | | | × | | | | | |
| Soil Relinquishe | 05/08/23 | 15:25 | Soil | BH22-20 2' | 1, 4oz jar | | 673 | × | × | | | × | | | | | |
| Relinguishe Relinguishe | 05/08/23 | | Soil | BH22-20 3.5' | 1, 4oz jar | | | | × | | | <u>×</u> | | | | | |
| Path Relinquishe | Date: | Time: | Relinguish | en by: | Received by: | Via: | | Rem | arks: | | | | | | | | |
| Relinquishe | 85-95 8 | 00.10 | Labort | Man, | Chumu | ٠ | | Dire | st bill | to De | von, l | Dale V | Vood r Fin | all 의 Re | t | | |
| OUTH | Date: | Time: | | ed by: | Received by: | Via:Court | - | | |)) | | | | <u> </u> | <u>,</u> | 7 | |
| | 5 2 3 3 | 000 | | NA AN | | | 5/16/23 | | | | | | | | | 0 | , |

If necessary, samples submitted to Hall Environmental may be subcomfacted to other secredited 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

May 24, 2023

Kent Stallings Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

FAX:

RE: Cotton Draw Unit 1 12 CTB OrderNo.: 2305697

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 36 sample(s) on 5/12/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-32 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 8:20:00 AM

 Lab ID:
 2305697-001
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|---------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 5/17/2023 1:07:12 AM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/17/2023 1:07:12 AM |
| Surr: DNOP | 86.5 | 69-147 | %Rec | 1 | 5/17/2023 1:07:12 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/16/2023 12:39:05 AM |
| Surr: BFB | 81.6 | 15-244 | %Rec | 1 | 5/16/2023 12:39:05 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/16/2023 12:39:05 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 12:39:05 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 12:39:05 AM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 5/16/2023 12:39:05 AM |
| Surr: 4-Bromofluorobenzene | 82.4 | 39.1-146 | %Rec | 1 | 5/16/2023 12:39:05 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/18/2023 2:23:17 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 44

Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-32 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 8:25:00 AM

 Lab ID:
 2305697-002
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 5/17/2023 1:18:18 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/17/2023 1:18:18 AM Surr: DNOP 96.8 69-147 %Rec 1 5/17/2023 1:18:18 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/16/2023 1:49:00 AM 4.8 mg/Kg 1 Surr: BFB 78.9 15-244 %Rec 1 5/16/2023 1:49:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/16/2023 1:49:00 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 5/16/2023 1:49:00 AM Ethylbenzene ND 0.048 mg/Kg 1 5/16/2023 1:49:00 AM Xylenes, Total ND 0.095 mg/Kg 5/16/2023 1:49:00 AM 1 Surr: 4-Bromofluorobenzene 82.8 39.1-146 %Rec 1 5/16/2023 1:49:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 5/18/2023 2:35:37 AM ND 60 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 44

Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-32 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 8:30:00 AM

 Lab ID:
 2305697-003
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.5 mg/Kg 1 5/17/2023 1:29:23 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/17/2023 1:29:23 AM Surr: DNOP 99.2 69-147 %Rec 1 5/17/2023 1:29:23 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/16/2023 2:59:24 AM 4.7 mg/Kg 1 Surr: BFB 67.2 15-244 %Rec 1 5/16/2023 2:59:24 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/16/2023 2:59:24 AM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 5/16/2023 2:59:24 AM Ethylbenzene ND 0.047 mg/Kg 1 5/16/2023 2:59:24 AM Xylenes, Total ND 0.095 mg/Kg 5/16/2023 2:59:24 AM 1 Surr: 4-Bromofluorobenzene 79.9 39.1-146 %Rec 1 5/16/2023 2:59:24 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 5/18/2023 3:12:40 AM 1800 60 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 44

Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-33 0th

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 8:40:00 AM

 Lab ID:
 2305697-004
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 5/17/2023 1:40:26 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 5/17/2023 1:40:26 AM Surr: DNOP 102 69-147 %Rec 1 5/17/2023 1:40:26 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/16/2023 3:22:48 AM 4.8 mg/Kg 1 Surr: BFB 76.8 15-244 %Rec 1 5/16/2023 3:22:48 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/16/2023 3:22:48 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 5/16/2023 3:22:48 AM Ethylbenzene ND 0.048 mg/Kg 1 5/16/2023 3:22:48 AM Xylenes, Total ND 0.096 mg/Kg 5/16/2023 3:22:48 AM 1 Surr: 4-Bromofluorobenzene 81.9 39.1-146 %Rec 1 5/16/2023 3:22:48 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 5/18/2023 3:49:41 AM ND 60 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 44

Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-33 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 8:45:00 AM

 Lab ID:
 2305697-005
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/17/2023 1:51:29 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/17/2023 1:51:29 AM |
| Surr: DNOP | 99.3 | 69-147 | %Rec | 1 | 5/17/2023 1:51:29 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/16/2023 3:46:11 AM |
| Surr: BFB | 83.9 | 15-244 | %Rec | 1 | 5/16/2023 3:46:11 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/16/2023 3:46:11 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/16/2023 3:46:11 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/16/2023 3:46:11 AM |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 5/16/2023 3:46:11 AM |
| Surr: 4-Bromofluorobenzene | 83.4 | 39.1-146 | %Rec | 1 | 5/16/2023 3:46:11 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/18/2023 4:26:42 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 44

Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-33 3'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 8:50:00 AM

 Lab ID:
 2305697-006
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|---------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 5/17/2023 2:02:29 AM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 5/17/2023 2:02:29 AM |
| Surr: DNOP | 104 | 69-147 | %Rec | 1 | 5/17/2023 2:02:29 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/16/2023 4:09:28 AM |
| Surr: BFB | 79.4 | 15-244 | %Rec | 1 | 5/16/2023 4:09:28 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/16/2023 4:09:28 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 4:09:28 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 4:09:28 AM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/16/2023 4:09:28 AM |
| Surr: 4-Bromofluorobenzene | 82.5 | 39.1-146 | %Rec | 1 | 5/16/2023 4:09:28 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 1600 | 60 | mg/Kg | 20 | 5/18/2023 5:03:45 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-34 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 9:00:00 AM

 Lab ID:
 2305697-007
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|---------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OF | RGANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.3 | mg/Kg | 1 | 5/17/2023 2:13:29 AM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 5/17/2023 2:13:29 AM |
| Surr: DNOP | 96.1 | 69-147 | %Rec | 1 | 5/17/2023 2:13:29 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/16/2023 4:32:47 AM |
| Surr: BFB | 81.5 | 15-244 | %Rec | 1 | 5/16/2023 4:32:47 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.023 | mg/Kg | 1 | 5/16/2023 4:32:47 AM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/16/2023 4:32:47 AM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/16/2023 4:32:47 AM |
| Xylenes, Total | ND | 0.093 | mg/Kg | 1 | 5/16/2023 4:32:47 AM |
| Surr: 4-Bromofluorobenzene | 83.2 | 39.1-146 | %Rec | 1 | 5/16/2023 4:32:47 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/18/2023 5:40:48 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-34 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 9:05:00 AM

 Lab ID:
 2305697-008
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/17/2023 2:24:28 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/17/2023 2:24:28 AM |
| Surr: DNOP | 98.8 | 69-147 | %Rec | 1 | 5/17/2023 2:24:28 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/16/2023 4:56:07 AM |
| Surr: BFB | 80.1 | 15-244 | %Rec | 1 | 5/16/2023 4:56:07 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/16/2023 4:56:07 AM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/16/2023 4:56:07 AM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/16/2023 4:56:07 AM |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 5/16/2023 4:56:07 AM |
| Surr: 4-Bromofluorobenzene | 82.8 | 39.1-146 | %Rec | 1 | 5/16/2023 4:56:07 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/18/2023 8:18:07 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-34 3'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 9:10:00 AM

 Lab ID:
 2305697-009
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 5/17/2023 2:46:10 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 5/17/2023 2:46:10 AM Surr: DNOP 99.9 69-147 %Rec 1 5/17/2023 2:46:10 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/16/2023 10:27:36 AM 4.9 mg/Kg 1 Surr: BFB 86.7 15-244 %Rec 1 5/16/2023 10:27:36 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/16/2023 10:27:36 AM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/16/2023 10:27:36 AM Ethylbenzene ND 0.049 mg/Kg 1 5/16/2023 10:27:36 AM Xylenes, Total ND 0.098 mg/Kg 5/16/2023 10:27:36 AM 1 Surr: 4-Bromofluorobenzene 83.5 39.1-146 %Rec 1 5/16/2023 10:27:36 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 5/18/2023 8:30:27 AM ND 60 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-35 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 9:15:00 AM

 Lab ID:
 2305697-010
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Result | RL Qu | al Units | DF | Date Analyzed | |
|---|---|---|---|--|--|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | |
| ND | 9.7 | mg/Kg | 1 | 5/17/2023 2:57:06 AM | |
| ND | 48 | mg/Kg | 1 | 5/17/2023 2:57:06 AM | |
| 97.3 | 69-147 | %Rec | 1 | 5/17/2023 2:57:06 AM | |
| | | | | Analyst: JJP | |
| ND | 4.7 | mg/Kg | 1 | 5/16/2023 11:14:19 AM | |
| 75.6 | 15-244 | %Rec | 1 | 5/16/2023 11:14:19 AM | |
| | | | | Analyst: JJP | |
| ND | 0.023 | mg/Kg | 1 | 5/16/2023 11:14:19 AM | |
| ND | 0.047 | mg/Kg | 1 | 5/16/2023 11:14:19 AM | |
| ND | 0.047 | mg/Kg | 1 | 5/16/2023 11:14:19 AM | |
| ND | 0.093 | mg/Kg | 1 | 5/16/2023 11:14:19 AM | |
| 80.9 | 39.1-146 | %Rec | 1 | 5/16/2023 11:14:19 AM | |
| | | | | Analyst: SNS | |
| ND | 60 | mg/Kg | 20 | 5/18/2023 8:42:48 AM | |
| | SANICS ND ND 97.3 ND 75.6 ND 80.9 | ND 9.7 ND 48 97.3 69-147 ND 4.7 75.6 15-244 ND 0.023 ND 0.047 ND 0.047 ND 0.093 80.9 39.1-146 | ANICS ND 9.7 mg/Kg ND 48 mg/Kg 97.3 69-147 %Rec ND 4.7 mg/Kg 75.6 15-244 %Rec ND 0.023 mg/Kg ND 0.047 mg/Kg ND 0.047 mg/Kg ND 0.047 mg/Kg ND 0.093 mg/Kg ND 0.093 mg/Kg 80.9 39.1-146 %Rec | ANICS ND 9.7 mg/Kg 1 ND 48 mg/Kg 1 97.3 69-147 %Rec 1 ND 4.7 mg/Kg 1 75.6 15-244 %Rec 1 ND 0.023 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.093 mg/Kg 1 ND 0.093 mg/Kg 1 ND 0.093 mg/Kg 1 ND 0.093 mg/Kg 1 | |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-35 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 9:20:00 AM

 Lab ID:
 2305697-011
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/17/2023 3:08:00 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/17/2023 3:08:00 AM |
| Surr: DNOP | 98.9 | 69-147 | %Rec | 1 | 5/17/2023 3:08:00 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/16/2023 11:37:47 AM |
| Surr: BFB | 89.1 | 15-244 | %Rec | 1 | 5/16/2023 11:37:47 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/16/2023 11:37:47 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 11:37:47 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 11:37:47 AM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/16/2023 11:37:47 AM |
| Surr: 4-Bromofluorobenzene | 83.7 | 39.1-146 | %Rec | 1 | 5/16/2023 11:37:47 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/18/2023 8:55:08 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-35 3.5

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 9:25:00 AM

 Lab ID:
 2305697-012
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 5/17/2023 3:18:52 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 5/17/2023 3:18:52 AM Surr: DNOP 99.2 69-147 %Rec 1 5/17/2023 3:18:52 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/16/2023 12:01:07 PM 4.9 mg/Kg 1 Surr: BFB 84.0 15-244 %Rec 1 5/16/2023 12:01:07 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/16/2023 12:01:07 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/16/2023 12:01:07 PM Ethylbenzene ND 0.049 mg/Kg 1 5/16/2023 12:01:07 PM Xylenes, Total ND 0.098 mg/Kg 5/16/2023 12:01:07 PM 1 Surr: 4-Bromofluorobenzene 81.3 39.1-146 %Rec 1 5/16/2023 12:01:07 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 5/18/2023 9:07:28 AM 61 60 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-36 0

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 9:40:00 AM

 Lab ID:
 2305697-013
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) 31 9.2 mg/Kg 1 5/17/2023 3:29:45 AM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 5/17/2023 3:29:45 AM Surr: DNOP 101 69-147 %Rec 1 5/17/2023 3:29:45 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/16/2023 12:24:32 PM 4.9 mg/Kg 1 Surr: BFB 83.8 15-244 %Rec 1 5/16/2023 12:24:32 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/16/2023 12:24:32 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/16/2023 12:24:32 PM Ethylbenzene ND 0.049 mg/Kg 1 5/16/2023 12:24:32 PM Xylenes, Total ND 0.097 mg/Kg 5/16/2023 12:24:32 PM 1 Surr: 4-Bromofluorobenzene 81.9 39.1-146 %Rec 1 5/16/2023 12:24:32 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 360 60 20 5/18/2023 9:19:48 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-36 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 9:45:00 AM

 Lab ID:
 2305697-014
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.4 mg/Kg 1 5/17/2023 3:40:35 AM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 5/17/2023 3:40:35 AM Surr: DNOP 99.6 69-147 %Rec 1 5/17/2023 3:40:35 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/16/2023 12:47:56 PM 4.8 mg/Kg 1 Surr: BFB 85.6 15-244 %Rec 1 5/16/2023 12:47:56 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/16/2023 12:47:56 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 5/16/2023 12:47:56 PM Ethylbenzene ND 0.048 mg/Kg 1 5/16/2023 12:47:56 PM Xylenes, Total ND 0.097 mg/Kg 5/16/2023 12:47:56 PM 1 Surr: 4-Bromofluorobenzene 82.7 39.1-146 %Rec 1 5/16/2023 12:47:56 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride mg/Kg 690 60 20 5/18/2023 9:32:09 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-36 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 9:50:00 AM

 Lab ID:
 2305697-015
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 5/17/2023 3:51:20 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/17/2023 3:51:20 AM Surr: DNOP 99.7 69-147 %Rec 1 5/17/2023 3:51:20 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/16/2023 1:11:21 PM 5.0 mg/Kg 1 Surr: BFB 99.4 15-244 %Rec 1 5/16/2023 1:11:21 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/16/2023 1:11:21 PM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 5/16/2023 1:11:21 PM Ethylbenzene ND 0.050 mg/Kg 1 5/16/2023 1:11:21 PM Xylenes, Total ND 0.10 mg/Kg 5/16/2023 1:11:21 PM 1 Surr: 4-Bromofluorobenzene 80.4 39.1-146 %Rec 1 5/16/2023 1:11:21 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride mg/Kg 5/19/2023 10:04:14 AM 2600 150 50

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-37 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 10:00:00 AM

 Lab ID:
 2305697-016
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|-------------------------------------|--------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OF | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | 460 | 9.9 | mg/Kg | 1 | 5/17/2023 4:02:00 AM |
| Motor Oil Range Organics (MRO) | 470 | 49 | mg/Kg | 1 | 5/17/2023 4:02:00 AM |
| Surr: DNOP | 106 | 69-147 | %Rec | 1 | 5/17/2023 4:02:00 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/16/2023 1:34:53 PM |
| Surr: BFB | 87.7 | 15-244 | %Rec | 1 | 5/16/2023 1:34:53 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/16/2023 1:34:53 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 1:34:53 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 1:34:53 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/16/2023 1:34:53 PM |
| Surr: 4-Bromofluorobenzene | 82.4 | 39.1-146 | %Rec | 1 | 5/16/2023 1:34:53 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 650 | 60 | mg/Kg | 20 | 5/18/2023 9:56:50 AM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-37 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 10:05:00 AM

 Lab ID:
 2305697-017
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/17/2023 4:23:19 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/17/2023 4:23:19 AM |
| Surr: DNOP | 105 | 69-147 | %Rec | 1 | 5/17/2023 4:23:19 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/16/2023 1:58:19 PM |
| Surr: BFB | 88.9 | 15-244 | %Rec | 1 | 5/16/2023 1:58:19 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/16/2023 1:58:19 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 1:58:19 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 1:58:19 PM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/16/2023 1:58:19 PM |
| Surr: 4-Bromofluorobenzene | 82.9 | 39.1-146 | %Rec | 1 | 5/16/2023 1:58:19 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 1400 | 60 | mg/Kg | 20 | 5/18/2023 10:09:11 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-37 3'

Project: Cotton Draw Unit 1 12 CTB

Collection Date: 5/10/2023 10:10:00 AM

Lab ID: 2305697-018 **Matrix:** SOIL **Received Date:** 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OF | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 8.7 | mg/Kg | 1 | 5/17/2023 4:33:55 AM |
| Motor Oil Range Organics (MRO) | ND | 43 | mg/Kg | 1 | 5/17/2023 4:33:55 AM |
| Surr: DNOP | 93.0 | 69-147 | %Rec | 1 | 5/17/2023 4:33:55 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/16/2023 2:21:52 PM |
| Surr: BFB | 91.8 | 15-244 | %Rec | 1 | 5/16/2023 2:21:52 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/16/2023 2:21:52 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 2:21:52 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/16/2023 2:21:52 PM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 5/16/2023 2:21:52 PM |
| Surr: 4-Bromofluorobenzene | 83.0 | 39.1-146 | %Rec | 1 | 5/16/2023 2:21:52 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | 4200 | 150 | mg/Kg | 50 | 5/19/2023 10:16:38 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-38 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 10:20:00 AM

 Lab ID:
 2305697-019
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|---------------------------------------|---------------------|----------|---------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 9.1 | mg/Kg | 1 | 5/17/2023 1:14:55 AM |
| Motor Oil Range Organics (MRO) | ND | 45 | mg/Kg | 1 | 5/17/2023 1:14:55 AM |
| Surr: DNOP | 88.5 | 69-147 | %Rec | 1 | 5/17/2023 1:14:55 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.6 | mg/Kg | 1 | 5/19/2023 11:51:13 AM |
| Surr: BFB | 78.7 | 15-244 | %Rec | 1 | 5/19/2023 11:51:13 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.023 | mg/Kg | 1 | 5/19/2023 11:51:13 AM |
| Toluene | ND | 0.046 | mg/Kg | 1 | 5/19/2023 11:51:13 AM |
| Ethylbenzene | ND | 0.046 | mg/Kg | 1 | 5/19/2023 11:51:13 AM |
| Xylenes, Total | ND | 0.092 | mg/Kg | 1 | 5/19/2023 11:51:13 AM |
| Surr: 4-Bromofluorobenzene | 101 | 39.1-146 | %Rec | 1 | 5/19/2023 11:51:13 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/18/2023 10:58:35 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-38 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 10:25:00 AM

 Lab ID:
 2305697-020
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|---------------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 9.3 | mg/Kg | 1 | 5/17/2023 1:38:42 AM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 5/17/2023 1:38:42 AM |
| Surr: DNOP | 88.6 | 69-147 | %Rec | 1 | 5/17/2023 1:38:42 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/19/2023 12:14:35 PM |
| Surr: BFB | 73.0 | 15-244 | %Rec | 1 | 5/19/2023 12:14:35 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/19/2023 12:14:35 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/19/2023 12:14:35 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/19/2023 12:14:35 PM |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 5/19/2023 12:14:35 PM |
| Surr: 4-Bromofluorobenzene | 100 | 39.1-146 | %Rec | 1 | 5/19/2023 12:14:35 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/18/2023 11:10:55 AM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-38 3'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 10:30:00 AM

 Lab ID:
 2305697-021
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|---------------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 5/17/2023 2:02:28 AM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/17/2023 2:02:28 AM |
| Surr: DNOP | 88.1 | 69-147 | %Rec | 1 | 5/17/2023 2:02:28 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/19/2023 12:37:53 PM |
| Surr: BFB | 87.6 | 15-244 | %Rec | 1 | 5/19/2023 12:37:53 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/19/2023 12:37:53 PM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/19/2023 12:37:53 PM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/19/2023 12:37:53 PM |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 5/19/2023 12:37:53 PM |
| Surr: 4-Bromofluorobenzene | 102 | 39.1-146 | %Rec | 1 | 5/19/2023 12:37:53 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 110 | 60 | mg/Kg | 20 | 5/18/2023 11:23:16 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-39 0'

Project: Cotton Draw Unit 1 12 CTB

Collection Date: 5/10/2023 10:35:00 AM

Lab ID: 2305697-022 **Matrix:** SOIL **Received Date:** 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 8.8 | mg/Kg | 1 | 5/17/2023 2:26:13 AM |
| Motor Oil Range Organics (MRO) | ND | 44 | mg/Kg | 1 | 5/17/2023 2:26:13 AM |
| Surr: DNOP | 87.2 | 69-147 | %Rec | 1 | 5/17/2023 2:26:13 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/19/2023 1:01:20 PM |
| Surr: BFB | 78.0 | 15-244 | %Rec | 1 | 5/19/2023 1:01:20 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/19/2023 1:01:20 PM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/19/2023 1:01:20 PM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/19/2023 1:01:20 PM |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 5/19/2023 1:01:20 PM |
| Surr: 4-Bromofluorobenzene | 101 | 39.1-146 | %Rec | 1 | 5/19/2023 1:01:20 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/18/2023 11:35:36 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-39 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 10:40:00 AM

 Lab ID:
 2305697-023
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|---------------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 5/17/2023 6:41:18 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 5/17/2023 6:41:18 PM |
| Surr: DNOP | 98.6 | 69-147 | %Rec | 1 | 5/17/2023 6:41:18 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/17/2023 1:47:00 PM |
| Surr: BFB | 91.3 | 15-244 | %Rec | 1 | 5/17/2023 1:47:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/17/2023 1:47:00 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/17/2023 1:47:00 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/17/2023 1:47:00 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/17/2023 1:47:00 PM |
| Surr: 4-Bromofluorobenzene | 85.0 | 39.1-146 | %Rec | 1 | 5/17/2023 1:47:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/18/2023 11:47:57 AM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-39 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 10:45:00 AM

 Lab ID:
 2305697-024
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 5/17/2023 6:52:21 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/17/2023 6:52:21 PM |
| Surr: DNOP | 137 | 69-147 | %Rec | 1 | 5/17/2023 6:52:21 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/17/2023 2:53:00 PM |
| Surr: BFB | 89.6 | 15-244 | %Rec | 1 | 5/17/2023 2:53:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/17/2023 2:53:00 PM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/17/2023 2:53:00 PM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/17/2023 2:53:00 PM |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 5/17/2023 2:53:00 PM |
| Surr: 4-Bromofluorobenzene | 85.8 | 39.1-146 | %Rec | 1 | 5/17/2023 2:53:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 97 | 60 | mg/Kg | 20 | 5/18/2023 12:00:17 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-40 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 11:00:00 AM

 Lab ID:
 2305697-025
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qua | Units | DF | Date Analyzed |
|---------------------------------------|--------------|----------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | 70 | 9.8 | mg/Kg | 1 | 5/17/2023 7:03:23 PM |
| Motor Oil Range Organics (MRO) | 110 | 49 | mg/Kg | 1 | 5/17/2023 7:03:23 PM |
| Surr: DNOP | 98.9 | 69-147 | %Rec | 1 | 5/17/2023 7:03:23 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/17/2023 3:58:00 PM |
| Surr: BFB | 85.8 | 15-244 | %Rec | 1 | 5/17/2023 3:58:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.023 | mg/Kg | 1 | 5/17/2023 3:58:00 PM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/17/2023 3:58:00 PM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/17/2023 3:58:00 PM |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 5/17/2023 3:58:00 PM |
| Surr: 4-Bromofluorobenzene | 85.1 | 39.1-146 | %Rec | 1 | 5/17/2023 3:58:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | 2300 | 150 | mg/Kg | 50 | 5/19/2023 10:29:02 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-40 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 11:05:00 AM

 Lab ID:
 2305697-026
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|---------------------------------------|--------------|----------|---------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 5/17/2023 7:25:12 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/17/2023 7:25:12 PM |
| Surr: DNOP | 91.9 | 69-147 | %Rec | 1 | 5/17/2023 7:25:12 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/17/2023 4:20:00 PM |
| Surr: BFB | 91.4 | 15-244 | %Rec | 1 | 5/17/2023 4:20:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/17/2023 4:20:00 PM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/17/2023 4:20:00 PM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/17/2023 4:20:00 PM |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 5/17/2023 4:20:00 PM |
| Surr: 4-Bromofluorobenzene | 86.4 | 39.1-146 | %Rec | 1 | 5/17/2023 4:20:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 2300 | 60 | mg/Kg | 20 | 5/18/2023 1:14:21 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-40 3'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 11:10:00 AM

 Lab ID:
 2305697-027
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qua | Units | DF | Date Analyzed |
|---------------------------------------|--------------|----------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | 14 | 9.0 | mg/Kg | 1 | 5/17/2023 7:36:11 PM |
| Motor Oil Range Organics (MRO) | ND | 45 | mg/Kg | 1 | 5/17/2023 7:36:11 PM |
| Surr: DNOP | 98.5 | 69-147 | %Rec | 1 | 5/17/2023 7:36:11 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/17/2023 4:41:00 PM |
| Surr: BFB | 84.2 | 15-244 | %Rec | 1 | 5/17/2023 4:41:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/17/2023 4:41:00 PM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/17/2023 4:41:00 PM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/17/2023 4:41:00 PM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 5/17/2023 4:41:00 PM |
| Surr: 4-Bromofluorobenzene | 82.1 | 39.1-146 | %Rec | 1 | 5/17/2023 4:41:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | 2700 | 150 | mg/Kg | 50 | 5/19/2023 10:41:27 AM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-41 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 11:20:00 AM

 Lab ID:
 2305697-028
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|---------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.4 | mg/Kg | 1 | 5/17/2023 7:47:10 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 5/17/2023 7:47:10 PM |
| Surr: DNOP | 99.6 | 69-147 | %Rec | 1 | 5/17/2023 7:47:10 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.6 | mg/Kg | 1 | 5/17/2023 5:03:00 PM |
| Surr: BFB | 83.4 | 15-244 | %Rec | 1 | 5/17/2023 5:03:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.023 | mg/Kg | 1 | 5/17/2023 5:03:00 PM |
| Toluene | ND | 0.046 | mg/Kg | 1 | 5/17/2023 5:03:00 PM |
| Ethylbenzene | ND | 0.046 | mg/Kg | 1 | 5/17/2023 5:03:00 PM |
| Xylenes, Total | ND | 0.093 | mg/Kg | 1 | 5/17/2023 5:03:00 PM |
| Surr: 4-Bromofluorobenzene | 82.2 | 39.1-146 | %Rec | 1 | 5/17/2023 5:03:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/18/2023 1:39:02 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-41 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 11:25:00 AM

 Lab ID:
 2305697-029
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

Analyses Result **RL Qual Units** DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) mg/Kg ND 9.5 1 5/17/2023 7:58:09 PM Motor Oil Range Organics (MRO) ND 1 5/17/2023 7:58:09 PM 47 mg/Kg Surr: DNOP 96.4 69-147 %Rec 1 5/17/2023 7:58:09 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN

| | | | | | - |
|-------------------------------|------|----------|-------|----|----------------------|
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/17/2023 5:25:00 PM |
| Surr: BFB | 87.1 | 15-244 | %Rec | 1 | 5/17/2023 5:25:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/17/2023 5:25:00 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/17/2023 5:25:00 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/17/2023 5:25:00 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/17/2023 5:25:00 PM |
| Surr: 4-Bromofluorobenzene | 83.4 | 39.1-146 | %Rec | 1 | 5/17/2023 5:25:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/18/2023 1:51:21 PM |
| | | | | | |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-41 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 11:30:00 AM

 Lab ID:
 2305697-030
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|---------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/17/2023 8:09:09 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/17/2023 8:09:09 PM |
| Surr: DNOP | 97.3 | 69-147 | %Rec | 1 | 5/17/2023 8:09:09 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/17/2023 5:46:00 PM |
| Surr: BFB | 84.6 | 15-244 | %Rec | 1 | 5/17/2023 5:46:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/17/2023 5:46:00 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/17/2023 5:46:00 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/17/2023 5:46:00 PM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 5/17/2023 5:46:00 PM |
| Surr: 4-Bromofluorobenzene | 83.5 | 39.1-146 | %Rec | 1 | 5/17/2023 5:46:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 470 | 59 | mg/Kg | 20 | 5/18/2023 2:03:42 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ple pH Not In Range Page 30 of 44

Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-42 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 11:40:00 AM

 Lab ID:
 2305697-031
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 8.9 | mg/Kg | 1 | 5/17/2023 8:20:08 PM |
| Motor Oil Range Organics (MRO) | ND | 45 | mg/Kg | 1 | 5/17/2023 8:20:08 PM |
| Surr: DNOP | 77.8 | 69-147 | %Rec | 1 | 5/17/2023 8:20:08 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.6 | mg/Kg | 1 | 5/17/2023 6:08:00 PM |
| Surr: BFB | 84.0 | 15-244 | %Rec | 1 | 5/17/2023 6:08:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.023 | mg/Kg | 1 | 5/17/2023 6:08:00 PM |
| Toluene | ND | 0.046 | mg/Kg | 1 | 5/17/2023 6:08:00 PM |
| Ethylbenzene | ND | 0.046 | mg/Kg | 1 | 5/17/2023 6:08:00 PM |
| Xylenes, Total | ND | 0.092 | mg/Kg | 1 | 5/17/2023 6:08:00 PM |
| Surr: 4-Bromofluorobenzene | 83.1 | 39.1-146 | %Rec | 1 | 5/17/2023 6:08:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/18/2023 2:40:44 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-42 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 11:45:00 AM

 Lab ID:
 2305697-032
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|---------------------------------------|--------|----------|---------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 5/17/2023 8:31:07 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/17/2023 8:31:07 PM |
| Surr: DNOP | 92.0 | 69-147 | %Rec | 1 | 5/17/2023 8:31:07 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.6 | mg/Kg | 1 | 5/17/2023 6:29:00 PM |
| Surr: BFB | 85.7 | 15-244 | %Rec | 1 | 5/17/2023 6:29:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.023 | mg/Kg | 1 | 5/17/2023 6:29:00 PM |
| Toluene | ND | 0.046 | mg/Kg | 1 | 5/17/2023 6:29:00 PM |
| Ethylbenzene | ND | 0.046 | mg/Kg | 1 | 5/17/2023 6:29:00 PM |
| Xylenes, Total | ND | 0.093 | mg/Kg | 1 | 5/17/2023 6:29:00 PM |
| Surr: 4-Bromofluorobenzene | 83.8 | 39.1-146 | %Rec | 1 | 5/17/2023 6:29:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 160 | 60 | mg/Kg | 20 | 5/18/2023 2:53:05 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-42 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 11:50:00 AM

 Lab ID:
 2305697-033
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 5/17/2023 8:42:05 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/17/2023 8:42:05 PM |
| Surr: DNOP | 96.3 | 69-147 | %Rec | 1 | 5/17/2023 8:42:05 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.6 | mg/Kg | 1 | 5/17/2023 7:35:00 PM |
| Surr: BFB | 83.6 | 15-244 | %Rec | 1 | 5/17/2023 7:35:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.023 | mg/Kg | 1 | 5/17/2023 7:35:00 PM |
| Toluene | ND | 0.046 | mg/Kg | 1 | 5/17/2023 7:35:00 PM |
| Ethylbenzene | ND | 0.046 | mg/Kg | 1 | 5/17/2023 7:35:00 PM |
| Xylenes, Total | ND | 0.092 | mg/Kg | 1 | 5/17/2023 7:35:00 PM |
| Surr: 4-Bromofluorobenzene | 83.2 | 39.1-146 | %Rec | 1 | 5/17/2023 7:35:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | 2200 | 150 | mg/Kg | 50 | 5/19/2023 10:53:51 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-43 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 12:00:00 PM

 Lab ID:
 2305697-034
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 5/17/2023 8:53:03 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/17/2023 8:53:03 PM |
| Surr: DNOP | 81.2 | 69-147 | %Rec | 1 | 5/17/2023 8:53:03 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/17/2023 7:56:00 PM |
| Surr: BFB | 89.9 | 15-244 | %Rec | 1 | 5/17/2023 7:56:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.023 | mg/Kg | 1 | 5/17/2023 7:56:00 PM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/17/2023 7:56:00 PM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/17/2023 7:56:00 PM |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 5/17/2023 7:56:00 PM |
| Surr: 4-Bromofluorobenzene | 85.7 | 39.1-146 | %Rec | 1 | 5/17/2023 7:56:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 2100 | 60 | mg/Kg | 20 | 5/18/2023 3:42:30 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-43 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 12:05:00 PM

 Lab ID:
 2305697-035
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|---------------------------------------|--------|----------|---------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 5/17/2023 9:03:54 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/17/2023 9:03:54 PM |
| Surr: DNOP | 135 | 69-147 | %Rec | 1 | 5/17/2023 9:03:54 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/17/2023 8:18:00 PM |
| Surr: BFB | 86.3 | 15-244 | %Rec | 1 | 5/17/2023 8:18:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/17/2023 8:18:00 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/17/2023 8:18:00 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/17/2023 8:18:00 PM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/17/2023 8:18:00 PM |
| Surr: 4-Bromofluorobenzene | 81.5 | 39.1-146 | %Rec | 1 | 5/17/2023 8:18:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 2400 | 60 | mg/Kg | 20 | 5/18/2023 3:54:51 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-43 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/10/2023 12:10:00 PM

 Lab ID:
 2305697-036
 Matrix: SOIL
 Received Date: 5/12/2023 7:30:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|---------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 5/17/2023 9:14:49 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/17/2023 9:14:49 PM |
| Surr: DNOP | 98.9 | 69-147 | %Rec | 1 | 5/17/2023 9:14:49 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/17/2023 8:39:00 PM |
| Surr: BFB | 84.7 | 15-244 | %Rec | 1 | 5/17/2023 8:39:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/17/2023 8:39:00 PM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/17/2023 8:39:00 PM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/17/2023 8:39:00 PM |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 5/17/2023 8:39:00 PM |
| Surr: 4-Bromofluorobenzene | 83.1 | 39.1-146 | %Rec | 1 | 5/17/2023 8:39:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 1100 | 60 | mg/Kg | 20 | 5/18/2023 4:07:12 PM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

ND

14

WO#: 2305697

24-May-23

Client: Vertex Resources Services, Inc. **Project:** Cotton Draw Unit 1 12 CTB

Sample ID: MB-75006 SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: PBS Batch ID: 75006 RunNo: 96821 Prep Date: 5/17/2023 Analysis Date: 5/17/2023 SeqNo: 3512943 Units: mq/Kq SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result **PQL** %REC LowLimit HighLimit Qual Chloride ND 1.5

Sample ID: LCS-75006 SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 75006 RunNo: 96821 Prep Date: 5/17/2023 Analysis Date: 5/17/2023 SeqNo: 3512944 Units: mg/Kg **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Chloride 14 1.5 15.00 95.4 90 110

Sample ID: MB-75015 SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: PBS Batch ID: 75015 RunNo: 96821 Analysis Date: 5/18/2023 Prep Date: 5/17/2023 SeqNo: 3512975 Units: mg/Kg Result POI SPK value SPK Ref Val %REC %RPD **RPDLimit** Qual Analyte I owl imit HighLimit

Sample ID: LCS-75015 SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 75015 RunNo: 96821 Prep Date: Analysis Date: 5/18/2023 5/17/2023 SeqNo: 3512976 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit

94.2

90

Sample ID: MB-75028 SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: Batch ID: 75028 RunNo: 96877 PRS Prep Date: 5/18/2023 Analysis Date: 5/18/2023 SeqNo: 3514287 Units: mg/Kg SPK value SPK Ref Val %REC **RPDLimit** Analyte Result **PQL** LowLimit HighLimit %RPD Qual Chloride ND 1.5

Sample ID: LCS-75028 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 75028 RunNo: 96877

1.5

Prep Date: 5/18/2023 Analysis Date: 5/18/2023 SeqNo: 3514288 Units: mg/Kg

15.00

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride 14 1.5

Qualifiers:

Chloride

Chloride

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Client:

Project:

Hall Environmental Analysis Laboratory, Inc.

Vertex Resources Services, Inc.

Cotton Draw Unit 1 12 CTB

WO#: **2305697**

24-May-23

| Sample ID: MB-74969 | SampT | уре: МЕ | BLK | Tes | tCode: EF | PA Method | 8015M/D: Die | sel Range | Organics | |
|--------------------------------|------------|-------------------|-----------|---|------------------|-----------|--------------|-----------|----------|------|
| Client ID: PBS | Batcl | n ID: 74 9 | 969 | F | RunNo: 96 | 6783 | | | | |
| Prep Date: 5/15/2023 | Analysis D | Date: 5/ | 16/2023 | ; | SeqNo: 35 | 510134 | Units: %Rec | ; | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 9.5 | | 10.00 | | 94.9 | 69 | 147 | | | |
| Sample ID: LCS-74977 | SampT | ype: LC | s | Tes | tCode: EF | PA Method | 8015M/D: Die | sel Range | Organics | |
| Client ID: LCSS | Batcl | n ID: 74 9 | 977 | F | RunNo: 96 | 6783 | | | | |
| Prep Date: 5/16/2023 | Analysis D | Date: 5/ | 16/2023 | : | SeqNo: 35 | 510137 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47 | 10 | 50.00 | 0 | 93.2 | 61.9 | 130 | | | |
| Surr: DNOP | 4.6 | | 5.000 | | 91.8 | 69 | 147 | | | |
| Sample ID: MB-74977 | SampT | уре: МЕ | BLK | Tes | tCode: EF | PA Method | 8015M/D: Die | sel Range | Organics | |
| Client ID: PBS | Batcl | n ID: 74 9 | 977 | F | RunNo: 96 | 6783 | | | | |
| Prep Date: 5/16/2023 | Analysis D | Date: 5/ | 16/2023 | : | SeqNo: 35 | 510138 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 9.4 | | 10.00 | | 93.9 | 69 | 147 | | | |
| Sample ID: MR-74975 | SamnT | vne: MF | al K | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | Organics | |

| Sample ID: MB-74975 | Sampi | ype: MB | LK | res | 'A Method | 8015M/D: Die | sei Range | Organics | | |
|--------------------------------|------------|------------------|-----------|-------------|-----------------------------|--------------|-----------|----------|----------|------|
| Client ID: PBS | Batch | n ID: 749 | 75 | F | RunNo: 96 | 6800 | | | | |
| Prep Date: 5/16/2023 | Analysis D | ate: 5/ 1 | 16/2023 | 5 | SeqNo: 3510665 Units: mg/Kg | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 7.1 | | 10.00 | | 71.0 | 69 | 147 | | | |

| Sample ID: LCS-74975 | SampT | ype: LC | S | Tes | tCode: EF | PA Method | Method 8015M/D: Diesel Range Organics | | | | | |
|-----------------------------|------------|------------------|---------------------------------------|-------------|-----------|-----------|---------------------------------------|------|----------|------|--|--|
| Client ID: LCSS | Batch | n ID: 749 | 975 | F | RunNo: 90 | 6800 | | | | | | |
| Prep Date: 5/16/2023 | Analysis D | oate: 5/ | 5/16/2023 SeqNo: 3510666 Units: mg/Kg | | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| Diesel Range Organics (DRO) | 43 | 10 | 50.00 | 0 | 85.1 | 61.9 | 130 | | _ | | | |
| Surr: DNOP | 3.9 | | 5.000 | | 78.7 | 69 | 147 | | | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Client:

Hall Environmental Analysis Laboratory, Inc.

Vertex Resources Services, Inc.

WO#: 2305697

24-May-23

| | Draw Unit 1 12 C | <i>*</i> | | | | | | | |
|--------------------------------|--------------------|-----------|---------------------------------------|------------------|-----------|--------------|-----------|----------|------|
| Sample ID: LCS-74969 | SampType: L | cs | Tes | tCode: EF | A Method | 8015M/D: Die | sel Range | Organics | |
| Client ID: LCSS | Batch ID: 7 | 1969 | F | RunNo: 96 | 783 | | | | |
| Prep Date: 5/15/2023 | Analysis Date: | 6/16/2023 | 5 | SeqNo: 35 | 10973 | Units: %Rec | ; | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP | 4.7 | 5.000 | | 94.3 | 69 | 147 | | | |
| Sample ID: LCS-74973 | SampType: L | cs | Tes | tCode: EF | A Method | 8015M/D: Die | sel Range | Organics | |
| Client ID: LCSS | Batch ID: 7 | 1973 | F | RunNo: 96 | 825 | | | | |
| Prep Date: 5/16/2023 | Analysis Date: | 5/17/2023 | S | SeqNo: 35 | 511917 | Units: mg/K | g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 44 10 | 50.00 | 0 | 88.8 | 61.9 | 130 | | | |
| Surr: DNOP | 4.7 | 5.000 | | 93.4 | 69 | 147 | | | |
| Sample ID: MB-74973 | SampType: N | BLK | Tes | tCode: EF | A Method | 8015M/D: Die | sel Range | Organics | |
| Client ID: PBS | Batch ID: 7 | 1973 | F | RunNo: 96 | 825 | | | | |
| Prep Date: 5/16/2023 | Analysis Date: | 6/17/2023 | 5 | SeqNo: 35 | 11920 | Units: mg/K | g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND 50 |) | | | | | | | |
| Surr: DNOP | 9.3 | 10.00 | | 93.2 | 69 | 147 | | | |
| Sample ID: 2305697-023AMS | SampType: N | S | Tes | tCode: EF | PA Method | 8015M/D: Die | sel Range | Organics | |
| Client ID: BH23-39 2' | Batch ID: 7 | 1973 | F | RunNo: 96 | 825 | | | | |
| Prep Date: 5/16/2023 | Analysis Date: | /17/2023 | 5 | SeqNo: 35 | 12538 | Units: mg/K | g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 45 9.5 | 47.44 | 0 | 94.2 | 54.2 | 135 | | | |
| Surr: DNOP | 4.4 | 4.744 | | 93.8 | 69 | 147 | | | |
| Sample ID: 2305697-023AMS | SampType: N | SD | Tes | tCode: EF | A Method | 8015M/D: Die | sel Range | Organics | |
| Client ID: BH23-39 2' | Batch ID: 7 | 1973 | F | RunNo: 96 | 825 | | | | |
| Prep Date: 5/16/2023 | Analysis Date: | 5/17/2023 | 5 | SeqNo: 35 | 512539 | Units: mg/K | g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| | | | · · · · · · · · · · · · · · · · · · · | | | | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Diesel Range Organics (DRO)

Surr: DNOP

% Recovery outside of standard limits. If undiluted results may be estimated.

43

4.1

9.3

46.64

4.664

Analyte detected in the associated Method Blank

92.0

87.1

54.2

69

135

147

4.04

0

- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

0

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29.2

0

Client:

Hall Environmental Analysis Laboratory, Inc.

Vertex Resources Services, Inc.

WO#: 2305697

24-May-23

| Project: | Cotton Dr | aw Unit 1 | 12 CT | В | | | | | | | |
|----------------------------|------------------|------------|-------------------|----------------|-------------|-------------------|-----------|--------------|------------|----------|------|
| Sample ID: | lcs-74930 | SampT | ype: LC | s | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | | |
| Client ID: | LCSS | Batch | n ID: 74 9 | 930 | F | RunNo: 96 | 6762 | | | | |
| Prep Date: | 5/12/2023 | Analysis D | Date: 5/ | 15/2023 | | SeqNo: 3 | 509509 | Units: mg/K | .g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Rang Surr: BFB | e Organics (GRO) | 21 4800 | 5.0 | 25.00 1000 | 0 | 85.4 483 | 70 15 | 130 244 | | | S |
| Sample ID: | mb-74930 | SampT | уре: МЕ | BLK | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | | |
| Client ID: | PBS | Batch | n ID: 74 9 | 930 | F | RunNo: 96 | 6762 | | | | |
| Prep Date: | 5/12/2023 | Analysis D | Date: 5/ | 15/2023 | | SeqNo: 3 | 509510 | Units: mg/K | g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Rang Surr: BFB | e Organics (GRO) | ND 810 | 5.0 | 1000 | | 81.0 | 15 | 244 | | | |
| Sample ID: | 2305697-001ams | SampT | уре: М | 3 | Tes | tCode: EF | PA Method | 8015D: Gasol | line Range | ! | |
| Client ID: | BH23-32 0' | Batch | n ID: 74 9 | 930 | F | RunNo: 96 | 6762 | | | | |
| Prep Date: | 5/12/2023 | Analysis D | Date: 5/ | 16/2023 | ; | SeqNo: 3 | 509554 | Units: mg/K | g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Rang Surr: BFB | e Organics (GRO) | 19 4800 | 4.9 | 24.37 974.7 | 0 | 79.9 495 | 70 15 | 130 244 | | | S |
| Sample ID: | 2305697-001amsd | SampT | уре: М | SD | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | | |
| Client ID: | BH23-32 0' | Batch | n ID: 74 9 | 930 | F | RunNo: 96 | 6762 | | | | |
| Prep Date: | 5/12/2023 | Analysis D | Date: 5/ | 16/2023 | ; | SeqNo: 3 | 509555 | Units: mg/K | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Rang Surr: BFB | e Organics (GRO) | 19 4700 | 4.9 | 24.41 976.6 | 0 | 78.8 485 | 70 15 | 130 244 | 1.17 0 | 20 0 | S |
| Sample ID: | mb-74959 | SampT | уре: МЕ | BLK | Tes | stCode: EF | PA Method | 8015D: Gasol | Iine Range | ! | |
| Client ID: | PBS | Batch | n ID: 74 9 | 959 | F | RunNo: 96 | 808 | | | | |
| Prep Date: | 5/15/2023 | Analysis D | Date: 5/ | 17/2023 | ; | SeqNo: 3 | 512645 | Units: mg/K | .g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Onnalina Dana | e Organics (GRO) | ND | 5.0 | | | | | | | | |

Qualifiers:

Analyte

Client ID:

Prep Date:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Sample ID: Ics-74959

LCSS

5/15/2023

- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.

SampType: LCS

Batch ID: 74959

Analysis Date: 5/17/2023

PQL

Result

Analyte detected in the associated Method Blank

RunNo: 96808

SeqNo: 3512646

TestCode: EPA Method 8015D: Gasoline Range

LowLimit

Units: mg/Kg

HighLimit

%RPD

Above Quantitation Range/Estimated Value

%REC

- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

SPK value SPK Ref Val

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RPDLimit

Qual

Hall Environmental Analysis Laboratory, Inc.

WO#: **2305697 24-May-23**

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: | lcs-74959 | SampT | ype: LC | s | Tes | tCode: EF | PA Method | 8015D: Gasol | ine Range | | |
|---------------|------------------|------------|-------------------|-----------|-------------|------------------|-----------|--------------|-----------|----------|------|
| Client ID: | LCSS | Batch | n ID: 74 9 | 959 | F | RunNo: 96 | 808 | | | | |
| Prep Date: | 5/15/2023 | Analysis D | Date: 5/ | 17/2023 | S | SeqNo: 35 | 512646 | Units: mg/K | g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Rang | e Organics (GRO) | 23 | 5.0 | 25.00 | 0 | 93.5 | 70 | 130 | | | |
| Surr: BFB | | 1900 | | 1000 | | 192 | 15 | 244 | | | |
| Sample ID: | 2305697-023ams | SampT | уре: М | 3 | Tes | tCode: EF | PA Method | 8015D: Gasol | ine Range | | |
| Client ID: | BH23-39 2' | Batch | n ID: 74 9 | 959 | F | RunNo: 96 | 808 | | | | |
| Prep Date: | 5/15/2023 | Analysis D | Date: 5/ | 17/2023 | 9 | SeqNo: 35 | 512648 | Units: mg/K | g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Rang | e Organics (GRO) | 24 | 5.0 | 24.80 | 0 | 96.8 | 70 | 130 | | | |
| Surr: BFB | | 2000 | | 992.1 | | 206 | 15 | 244 | | | |
| Sample ID: | 2305697-023amsd | SampT | уре: М | SD | Tes | tCode: EF | PA Method | 8015D: Gasol | ine Range | ı | |
| Client ID: | BH23-39 2' | Batch | n ID: 74 9 | 959 | F | RunNo: 96 | 808 | | | | |
| Prep Date: | 5/15/2023 | Analysis D | Date: 5/ | 17/2023 | 5 | SeqNo: 35 | 512649 | Units: mg/K | g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Rang | e Organics (GRO) | 23 | 5.0 | 24.75 | 0 | 92.2 | 70 | 130 | 4.98 | 20 | |
| Surr: BFB | | 2000 | | 990.1 | | 202 | 15 | 244 | 0 | 0 | |
| Sample ID: | lcs-74950 | SampT | ype: LC | s | Tes | tCode: EF | PA Method | 8015D: Gasol | ine Range | | |
| Client ID: | LCSS | Batch | n ID: 74 9 | 950 | F | RunNo: 96 | 874 | | | | |
| Prep Date: | 5/15/2023 | Analysis D | Date: 5/ | 19/2023 | \$ | SeqNo: 35 | 514220 | Units: mg/K | g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Rang | e Organics (GRO) | 24 | 5.0 | 25.00 | 0 | 94.7 | 70 | 130 | | | |
| Surr: BFB | | 5000 | | 1000 | | 497 | 15 | 244 | | | S |
| Sample ID: | mb-74950 | SampT | уре: МЕ | BLK | Tes | tCode: EF | PA Method | 8015D: Gasol | ine Range | ! | |
| Client ID: | PBS | Batch | n ID: 74 9 | 950 | F | RunNo: 96 | 874 | | | | |
| Prep Date: | 5/15/2023 | Analysis D | Date: 5/ | 19/2023 | S | SeqNo: 35 | 514221 | Units: mg/K | g | | |
| | | 5 " | | | | | | | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Qualifiers:

Surr: BFB

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

720

B Analyte detected in the associated Method Blank

72.2

15

244

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

1000

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305697 24-May-23**

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: LCS-74930 | SampT | Гуре: LC : | S | Tes | tCode: EF | PA Method | 8021B: Volati | iles | | |
|----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: LCSS | Batch | h ID: 749 | 30 | F | RunNo: 96 | 6762 | | | | |
| Prep Date: 5/12/2023 | Analysis D | Date: 5/ 1 | 15/2023 | 5 | SeqNo: 3 | 509516 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.80 | 0.025 | 1.000 | 0 | 80.2 | 70 | 130 | | | |
| Toluene | 0.82 | 0.050 | 1.000 | 0 | 82.4 | 70 | 130 | | | |
| Ethylbenzene | 0.82 | 0.050 | 1.000 | 0 | 82.2 | 70 | 130 | | | |
| Xylenes, Total | 2.5 | 0.10 | 3.000 | 0 | 82.7 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.86 | | 1.000 | | 86.1 | 39.1 | 146 | | | |

| Sample ID: mb-74930 | SampT | Гуре: МЕ | BLK | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: PBS | Batcl | h ID: 74 9 | 930 | F | RunNo: 96 | 6762 | | | | |
| Prep Date: 5/12/2023 | Analysis D | Date: 5/ * | 15/2023 | 5 | SeqNo: 3 | 509517 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.84 | | 1.000 | | 83.9 | 39.1 | 146 | | | |

| Sample ID: 2305697-002ams | Samp ⁻ | Туре: М S | 3 | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|-------------------|-------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: BH23-32 2' | Batc | h ID: 74 9 | 930 | F | RunNo: 90 | 6762 | | | | |
| Prep Date: 5/12/2023 | Analysis [| Date: 5/ | 16/2023 | 5 | SeqNo: 3 | 509581 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.72 | 0.024 | 0.9606 | 0 | 75.1 | 70 | 130 | | | |
| Toluene | 0.74 | 0.048 | 0.9606 | 0 | 77.5 | 70 | 130 | | | |
| Ethylbenzene | 0.76 | 0.048 | 0.9606 | 0 | 78.6 | 70 | 130 | | | |
| Xylenes, Total | 2.3 | 0.096 | 2.882 | 0 | 78.8 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.82 | | 0.9606 | | 84.9 | 39.1 | 146 | | | |

| Sample ID: 2305697-002amsd | SampT | ype: MS | D | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: BH23-32 2' | Batch | n ID: 749 | 30 | F | RunNo: 96 | 6762 | | | | |
| Prep Date: 5/12/2023 | Analysis D | Date: 5/ 1 | 16/2023 | 5 | SeqNo: 3 | 509582 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.69 | 0.024 | 0.9588 | 0 | 71.8 | 70 | 130 | 4.78 | 20 | |
| Toluene | 0.72 | 0.048 | 0.9588 | 0 | 74.9 | 70 | 130 | 3.68 | 20 | |
| Ethylbenzene | 0.73 | 0.048 | 0.9588 | 0 | 75.9 | 70 | 130 | 3.75 | 20 | |
| Xylenes, Total | 2.2 | 0.096 | 2.876 | 0 | 75.8 | 70 | 130 | 4.13 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.78 | | 0.9588 | | 81.5 | 39.1 | 146 | 0 | 0 | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305697**

24-May-23

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

Sample ID: mb-74959 SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBS Client ID: Batch ID: 74959 RunNo: 96808 Prep Date: 5/15/2023 Analysis Date: 5/17/2023 SeqNo: 3512676 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.84 1.000 84.0 39.1 146

Sample ID: Ics-74959 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 74959 RunNo: 96808 Analysis Date: 5/17/2023 Prep Date: SeqNo: 3512677 5/15/2023 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 Benzene 0.89 0.025 n 88.7 70 130 Toluene 0.88 0.050 1.000 0 87.9 70 130 Ethylbenzene 0 85.5 70 0.86 0.050 1.000 130 Xylenes, Total 2.5 0.10 3.000 0 84.9 70 130 Surr: 4-Bromofluorobenzene 0.86 1.000 85.5 39.1 146

| Sample ID: 2305697-024ams | SampT | ype: MS | ; | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|-------------------|-----------|-------------|------------------|-----------|---------------|------|----------|------|
| Client ID: BH23-39 4' | Batch | n ID: 749 | 59 | F | RunNo: 96 | 808 | | | | |
| Prep Date: 5/15/2023 | Analysis D | Date: 5/ 1 | 17/2023 | 5 | SeqNo: 35 | 12680 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.88 | 0.024 | 0.9461 | 0 | 93.0 | 70 | 130 | | | |
| Toluene | 0.88 | 0.047 | 0.9461 | 0 | 92.5 | 70 | 130 | | | |
| Ethylbenzene | 0.86 | 0.047 | 0.9461 | 0 | 91.2 | 70 | 130 | | | |
| Xylenes, Total | 2.6 | 0.095 | 2.838 | 0 | 90.4 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.83 | | 0.9461 | | 87.5 | 39.1 | 146 | | | |

| Sample ID: 2305697-024amsd | SampT | уре: МЅ | D | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: BH23-39 4' | Batch | n ID: 749 | 59 | F | RunNo: 96 | 808 | | | | |
| Prep Date: 5/15/2023 | Analysis D | Date: 5/ 1 | 17/2023 | 5 | SeqNo: 3 | 512681 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.87 | 0.024 | 0.9506 | 0 | 91.2 | 70 | 130 | 1.37 | 20 | |
| Toluene | 0.86 | 0.048 | 0.9506 | 0 | 90.5 | 70 | 130 | 1.67 | 20 | |
| Ethylbenzene | 0.84 | 0.048 | 0.9506 | 0 | 88.8 | 70 | 130 | 2.23 | 20 | |
| Xylenes, Total | 2.5 | 0.095 | 2.852 | 0 | 88.1 | 70 | 130 | 2.14 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.82 | | 0.9506 | | 86.6 | 39.1 | 146 | 0 | 0 | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 43 of 44

Hall Environmental Analysis Laboratory, Inc.

WO#: 2305697 24-May-23

Client: Vertex Resources Services, Inc. **Project:** Cotton Draw Unit 1 12 CTB

| Sample ID: LCS-74950 | Samp | Гуре: LC : | S | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: LCSS | Batcl | h ID: 74 9 | 950 | F | RunNo: 96 | 6874 | | | | |
| Prep Date: 5/15/2023 | Analysis [| Date: 5/ 1 | 19/2023 | 5 | SeqNo: 3 | 514224 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.95 | 0.025 | 1.000 | 0 | 94.6 | 70 | 130 | | | |
| Toluene | 0.96 | 0.050 | 1.000 | 0 | 95.6 | 70 | 130 | | | |
| Ethylbenzene | 0.97 | 0.050 | 1.000 | 0 | 97.4 | 70 | 130 | | | |
| Xylenes, Total | 2.9 | 0.10 | 3.000 | 0 | 97.4 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 102 | 39.1 | 146 | | | |

| Sample ID: mb-74950 | Samp ¹ | Гуре: МЕ | BLK | Tes | tCode: El | PA Method | 8021B: Volati | iles | | |
|----------------------------|-------------------|-------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: PBS | Batc | h ID: 74 9 | 950 | F | RunNo: 9 | 6874 | | | | |
| Prep Date: 5/15/2023 | Analysis [| Date: 5/ | 19/2023 | 5 | SeqNo: 3 | 514225 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 99.1 | 39.1 | 146 | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE

Sample Log-In Check List

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

| | | | Ji | ebsite: www.l | iallenvira | mmem | ai.com | | |
|--|------------------------------|-----------------|------------------|------------------|------------|---------------|------------|-------------------|------------------|
| | /ertex Reso Services, Inc | | Work | Order Numbe | r: 23050 | 697 | | RcptNo: | 1 |
| Received By: | Juan Rojas | 3 | 5/12/202 | 3 7:30:00 Al | И | | Gent Gent | | |
| Completed By: | Cheyenne (| Cason | 5/12/202 | 3 9:56:23 Al | И | | Chenl | | |
| Reviewed By: | _ | 5/12/2 | 3 | | | | 3 | | |
| Chain of Custo | | | | | | | 🗖 | | |
| l. Is Chain of Cus | , | | | | Yes | V | No 🗌 | Not Present | |
| . How was the sa | ample delive | red? | | | Couri | er | | | |
| Log In 3. Was an attempt | t made to co | ool the sample | es? | | Yes | V | No 🗌 | NA 🗆 | |
| 1. Were all sample | es received a | at a temperat | ture of >0° C t | o 6.0°C | Yes | ✓ | No 🗌 | NA 🗆 | |
| 5. Sample(s) in pr | oper contair | ner(s)? | | | Yes | V | No 🗌 | | |
| 3. Sufficient sampl | le volume fo | or indicated te | st(s)? | | Yes | V | No 🗌 | | |
| 7. Are samples (ex | | | | d? | Yes | | No 🗌 | | |
| 3. Was preservativ | | | | | Yes | | No 🗹 | NA 🗌 | |
| Received at least | st 1 vial with | ı headspace < | <1/4" for AQ V | OA? | Yes | | No 🗌 | NA 🗹 | |
| 0. Were any samp | ole containe | rs received br | roken? | | Yes | | No 🗹 | # of preserved | |
| 4 | | | | | | | N. 🗆 | bottles checked | |
| Does paperwork (Note discrepan | | |) | | Yes | Y i | No □ | for pH: (<2 or | 12 unless noted) |
| 2. Are matrices co | | | | | Yes | V | No 🗌 | Adjusted? | KM 5.12 |
| 3. Is it clear what a | analyses we | re requested? | ? | | Yes | ✓ | No 🗌 | / // | 0 11 00 |
| 4. Were all holding (If no, notify cus | | | | | Yes | V | No 🗌 | Checked by: K | 14 21120 |
| pecial Handlin | | | | | | | | | 5-12-23 |
| 15. Was client notil | | | vith this order? | | Yes | | No 🗌 | na 🗹 | |
| Person N | lotified: | | | Date: | - | (approximate) | - | | |
| By Whom | n: [| | | Via: | еМа | il 🗌 | Phone Fax | ☐ In Person | |
| Regardin | g: [| | | | | | | | |
| Client Ins | structions: | | | | | | | | |
| 16. Additional rem | arks: | | | | | | | | |
| 17. Cooler Inform | ation | | | | | | | | |
| | Temp ℃ | Condition | Seal Intact | Seal No Morty | Seal Da | ate | Signed By | j | |
| Cooler No | 0.7 | Good | Not Present | | | | | | |

| HALL ENVIRONMENS ALL OF 523 | ANALYSIS LABORATORY | www.hallenvironmental.com | ns NE - Albuquerque, NM 87109 | Fax | ysis Requ | †OS | S '*O | d 'č | (N | √O, | Meta NC (A· | , 8 I Br, VC | 2008 3260 (3270 (3270 (3270 (32) (32) (32) (32) (32) (32) (32) (32) | 3 >>> > | | × | × | × | × | × | × | × | × | × | × | × | | Direct bill to Devon, Dale Woodall در الاجتمالات المعرض معرف المعرض | 1/3 | MW MM Description of the series of the series as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report 5/12/13 |
|---|---------------------|---------------------------|-------------------------------|-------------------|-----------|------------------|----------------|-----------------------------|-----------------|-----------|-------------------|--|--|---------|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|---|------------------|---|
| I | A | > | 4901 Hawkins NE | Tel. 505-345-3975 | | | |)d 7 | 2808 | /sə | bicid | sə _c | 1 180s | 3 | | | | | | | | | ~ | | Ž | | rks: | t bill to Dev tallings@v |) | Jes cre. |
| | | | 4 | | | | | | | | | | X3T8 8:H9 | | + | × | × | × | × | × | × | × | × | × | × | × | Remarks | Direct S. ks | } | Som |
| d Time: | d Rush 5 Daw | ne: | iw Unit 1-12 CTB | | | nager: | SD | vertex.ca | ıan | Tres No | | Cooler Terrip(induding Cr.): Co. Co. Co. | Preservative | | 9 | 200 | 003 | 84 | 500 | | - 227 | \$00 | 600 | 010 | 011 | 210 | Via: | 5/11/00 S/11/00 | Date Til | Fracefulted laboratories. This serves as notice of this |
| Turn-Around Time: | K Standard | Project Name: | Cotton Dra | Project #: | 23E-02423 | Project Manager: | Kent Stallings | kstallings@vertex.ca | Sampler: | On Ice: | # of Coolers: | | Container | 5 | 1, 402 Jar | 1, 4oz jar | 1, 4oz jar | 1, 4oz jar | 1, 4oz jar | 1, 4oz jar | 1, 4oz jar | 1, 4oz jar | 1, 4oz jar | 1, 4oz jar | 1, 4oz jar | 1, 4oz jar | Received by: | OVERALL | Received by | to of better |
| eceive Chath 16 10 Classifically Record | Vertex | (direct bill to Devon) | | | | | | ☐ Level 4 (Full Validation) | ☐ Az Compliance | □ Other | | | Somply Name | _ | Soil | Soil BH22-32 2' | Soil BH22-32 4' | Soil BH22-33 0' | Soil BH22-33 2' | Soil BH22-33 3' | Soil BH22-34 0' | Soil BH22-34 2' | Soil BH22-34 3' | Soil BH22-35 0' | Soil BH22-35 2' | Soil BH22-35 3.5' | Relinguished by: | Sapring Julian | Relinquished by: | WWW A Los Environmental may be sup |
| BER. L | > | | dress: | | | ax#: | ckage: | īrd | | | ⊦ | | | | 8:20 | 8:25 | 8:30 | 8:40 | 8:45 | 8:50 | 9:00 | 9:02 | 9:10 | 9:15 | 9:20 | 9:25 | | Dalo | | 900 |
| eceive Ch | Client: | | Mailing Address | | Phone #: | email or Fax#: | QA/QC Package: | □ Standard | Accreditation: | □ NELAC | □ EDD (Type) | | | Dale | 05/10/23 | 05/10/23 | 05/10/23 | 05/10/23 | 05/10/23 | 05/10/23 | 05/10/23 | 05/10/23 | 05/10/23 | 05/10/23 | 05/10/23 | 05/10/23 | Date: | S-4-3003 | Date: | (S) (S) |

| HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request | (finesent/Absent) | 260 (VOA) 270 (Semi-VOA 1531 Coliform (F | 8 | | | | | | | | | | dall | cc. kstallings@vertex.ca for Final Report | 7. |
|---|---|---|------------|--------------------------|------------|------------|------------|--------------------------|------------|------------|--------------------------|----------------------------|------------------------------------|---|---|
| HALL EI ANALYS www.hallenv 4901 Hawkins NE - Alb Tel. 505-345-3975 F | | CRA 8 Metals | 뵈 | × | × | × ; | < × | × | × > | < × | × | × | Direct bill to Devon, Dale Woodall | x.ca for F | |
| A wwwkins | | 01£8 yd sHA | ı | | | | | | | | | | /on, | erte | l |
| HALL ANA www.h 4901 Hawkins NE Tel. 505-345-3975 | | 1803 Pesticides DB (Method 5 | | | | _ _ | | | | | | | De, | JS@v | |
| 4901 Tel. | O / DRO / MRO) | | | | | | | | | <u> </u> | | | S. bill to | alling | |
| | (1208) s'BMT \ | | 1 | × | | × × | +-1 | | × × | + | × | × | Direct bil | . ksta | |
| | | | | | | | | | ×× | × | × | × | <u> </u> | 8 | _ |
| ih 5 DAU) | 0 2 0 | 6 to 1-0.7 HEAL NO. | 80013 | 410 | 510 | 016 | 018 | 019 | 020 | 683 023 | | Date Time | | L 1 | OC 1 57/1 |
| nd Time: ard Kush me: aw Unit 1-12 CTB | nager: igs <u>Vertex.ca</u> L.Pullman | S: / ID(including CF): (A.) Preservative Type | | | | | | | | | | Via: | DALD | | 1000 × 114/13 |
| Turn-Around Time: A Standard Project Name: Cotton Draw Unit Project #: 23E-02423 | Rent Stallings Kett Stallings Kstallings@vertex.ca Sampler: L.Pullm On Ice: A Yes | # of Coolers: / Cooler Temp(including cr): Container Preserva Type and # Type | 1, 4oz jar | 1, 4oz jar | 1, 40z jar | 1, 40z jar | 1, 4oz jar | 1, 40z jar | 1, 40z jar | 1, 4oz jar | 1, 4oz jar | 1, 4oz jar Received by: | adula | Received by: | My potocrton |
| Received In the Mailing Address: Phone #: | ☐ Level 4 (Full Validation)☐ Az Compliance☐ Other_ | Sample Name | BH22-36 0' | BH22-36 2' BH22 36 4' | BH22-37 0' | BH22-37 2' | BH22-37 3' | BH22-38 0' BH22-38 2' | BH22-38 3' | BH22-39 0' | BH22-39 2' BH22-39 4' | .: | Lala | | If necessary, samples submitted to Hall Environmental may be submitted to the property of the |
| Vertex (direct k | . 00 | Matrix | | + | Soil | Soil | | Soil | _ | | Soil | Relinquished | Talent Limit | ACL. | samples submi |
| Client: Mailing Address: Phone #: | QA/QC Package: | Time | | 9:45 | `_ | 10:05 | 10:10 | 10:20 | 10:30 | 10:35 | 10:40 | | OT.MO | 196 | lecessary, |
| Received & Client: Mailing A Phone #: | QA/QC Pack« QA/QC Pack« Accreditation NELAC | | 05/10/23 | 05/10/23 | 05/10/23 | 05/10/23 | 05/10/23 | 05/10/23 | 05/10/23 | 05/10/23 | | 1- 4 | Date: | w | Ħ, |

iary, 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.

| Received bo | Medit | ALEGES CENT | Received WORTHING CUSTOBY RECORD | Turn-Around T | I Time: | | | | | | | | | Page 252 of 523 | 33 |
|----------------|-----------------------|------------------------|--|----------------------------|-----------------------|-------------|---|-------------------|------------------|-----------------|-------------------|---------------------------|-----------------------|----------------------------|----------------|
| Client: | | Vertex | | \frac{1}{2} | | 2 | | П | Î | 77 | EN | IRC | NM | HALL ENVIRONMENTAL | |
| | | (direct b | (direct bill to Devon) | Project Name: | e: | 2 vay | | | A | IAL | SIS | Y P | BOR | ANALYSIS LABORATORY | |
| Mailing | Mailing Address: | | | | | | | | ≶ | w.halle | inviron | www.hallenvironmental.com | com | | |
| | | | | Cotton Draw | v Unit 1-12 CTB | | | 4901 Hawkins NE | awkins | 1 | Albuqu | erque, ♪ | Albuquerque, NM 87109 | ത | |
| | | | | Froject #: | | | | Tel. 505-345-3975 | 5-345- | | С | Fax 505_375_7107 | 7017 | | |
| Phone #: | #: | | | 23E-02423 | | | | | | An | alveie | Analysis Reguest | 101 + 101 | | |
| email or Fax#: | r Fax#: | | | Project Manager: | gder: | | | | - | | 2 v | on have | | | |
| QA/QC F | QA/QC Package: | 2 | | Kent Stallings |) ₍₀ | | 021 | | S | | 00 | uə: | | | |
| ☐ Standard | dard | | ☐ Level 4 (Full Validation) | kstallings@vertex.ca | ertex.ca | |)8) s | | WIS | | ' [†] O- | —— edA\ | | | |
| Accreditation: | tation: AC | ☐ Az Cor☐ | Az Compliance Other | ان | lan | | TMB | 2808 | | | 405) | | | | |
| | EDD (Type) | | | # of Coologs | | No | / <u>=</u> | 3/se | | S | 1 '£ | | | | |
| | | | | Cooler Temp(ingluding CF): | < | L+0000 | IBTI | bioi | | eta | | | | | _ |
| | | | | | | 10-1-0-1 | M / | jsə, | | M 8 | | | _ | | _ |
| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type 7.3 | HEAL No. | XETE TPH:8(| 4 1808 | A) 80: J sHA9 | ARDS | Ĵ}E' I | 270 (S Otal C | | | |
| 05/10/23 | 11:00 | Soil | BH22-40 0' | 1, 4oz jar | | 026.025 | > > | 3 | | 4 | | _ 1 | | | T |
| 05/10/23 | 11:05 | Soil | BH22-40 2' | 1. 407 jar | 010 | | + | + | + | < | | | | | Т |
| 05/10/23 | 11:10 | Soil | BH22-40 3' | 1. 407 jar | 5 6 | , | - | | | × | | \perp | | | - T |
| 05/10/23 | 11:20 | Soil | BH22-41 0' | 1 407 ior | 170 | | + | \downarrow | | <u> </u> | 1 | 1 | | | \neg |
| 05/10/23 | 11:25 | Soil | BH22-41 2' | יין אַסר יין | 870 | | × | 1 | 1 | × | 1 | - | | | - |
| | 11.30 | | BH22-41 4' | 1, 40z jar | 620 | | × | 1 | 4 | × | | | | | |
| | 11:40 | Soil | BH22-42 0' | 1, 40z jar | 036 | | - | | | × | | | - | | ГТ |
| 05/10/23 | 11:45 | Soil | BH22-42 2' | 1, 402 jar | 3 6 | | +- | | | × | | 1 | | | |
| 05/10/23 | 11:50 | Soil | BH22-42 4' | 1, 40z iar | 2 80 | | < > | + | 1 | × ; | 1 | | + | | |
| 05/10/23 | 12:00 | Soil | BH22-43 0' | 1, 4oz jar | 034 | | - | | | × > | | - | | | |
| 05/10/23 | 12:05 | Soil | BH22-43 2' | 1, 4oz jar | 635 | | +- | \perp | 1 | < ; | | + | | | 1 |
| 1/23 | 9 | Soil | BH22-43 4' | 1, 40z jar | | | - | | 1 | < > | | 1 | + | | |
| S-Lyns | ime: | Kelinquished | у: | Received by: | Via: | ate Time | ∃ E |]]:s | | < | | | | | |
| S in | | Jack K | 'May | Chron | ,ς | 5/11/28 700 | Direct bill to Devon, Dale Woodall | III to D | evon, | Dale W | oodall | | | | |
| | | , simplingned by | | Received by: | Via: D | Date Time | cc. kstallings@vertex.ca for Final Report | llings@ | gverte | k.ca fo | Final | Report | | i | |
| 11/35 If ne | 1900 If necessary, si | Manuel Submitted to H. | If necessary, samples submitted to Hall Environmental may be a feet and the same of the samples of the sample of t | M | rounie-5/12/23 | (23 7.30 | | | | | | | | 3/3 | |

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

May 24, 2023

Kent Stallings Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

FAX:

RE: Cotton Draw Unit 1 12 CTB OrderNo.: 2305754

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 33 sample(s) on 5/13/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-44 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 9:00:00 AM

 Lab ID:
 2305754-001
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.2 | mg/Kg | 1 | 5/16/2023 2:09:02 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 5/16/2023 2:09:02 PM |
| Surr: DNOP | 108 | 69-147 | %Rec | 1 | 5/16/2023 2:09:02 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/20/2023 12:33:00 AM |
| Surr: BFB | 87.0 | 15-244 | %Rec | 1 | 5/20/2023 12:33:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 12:33:00 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 12:33:00 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 12:33:00 AM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/20/2023 12:33:00 AM |
| Surr: 4-Bromofluorobenzene | 84.3 | 39.1-146 | %Rec | 1 | 5/20/2023 12:33:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 84 | 60 | mg/Kg | 20 | 5/18/2023 4:44:14 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 44

Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-44 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 9:05:00 AM

 Lab ID:
 2305754-002
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/16/2023 2:19:55 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/16/2023 2:19:55 PM |
| Surr: DNOP | 97.1 | 69-147 | %Rec | 1 | 5/16/2023 2:19:55 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/20/2023 1:38:00 AM |
| Surr: BFB | 86.7 | 15-244 | %Rec | 1 | 5/20/2023 1:38:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/20/2023 1:38:00 AM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/20/2023 1:38:00 AM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/20/2023 1:38:00 AM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/20/2023 1:38:00 AM |
| Surr: 4-Bromofluorobenzene | 84.7 | 39.1-146 | %Rec | 1 | 5/20/2023 1:38:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 180 | 60 | mg/Kg | 20 | 5/18/2023 4:56:34 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 44

Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-44 3.5'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 9:10:00 AM

 Lab ID:
 2305754-003
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OI | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 5/16/2023 2:30:49 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 5/16/2023 2:30:49 PM |
| Surr: DNOP | 97.4 | 69-147 | %Rec | 1 | 5/16/2023 2:30:49 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/20/2023 2:43:00 AM |
| Surr: BFB | 87.8 | 15-244 | %Rec | 1 | 5/20/2023 2:43:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 2:43:00 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 2:43:00 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 2:43:00 AM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/20/2023 2:43:00 AM |
| Surr: 4-Bromofluorobenzene | 85.9 | 39.1-146 | %Rec | 1 | 5/20/2023 2:43:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 370 | 60 | mg/Kg | 20 | 5/18/2023 5:08:55 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-45 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 9:20:00 AM

 Lab ID:
 2305754-004
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|---------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | RGANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 5/16/2023 2:41:41 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/16/2023 2:41:41 PM |
| Surr: DNOP | 105 | 69-147 | %Rec | 1 | 5/16/2023 2:41:41 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/20/2023 3:04:00 AM |
| Surr: BFB | 89.5 | 15-244 | %Rec | 1 | 5/20/2023 3:04:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 3:04:00 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/20/2023 3:04:00 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/20/2023 3:04:00 AM |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 5/20/2023 3:04:00 AM |
| Surr: 4-Bromofluorobenzene | 84.7 | 39.1-146 | %Rec | 1 | 5/20/2023 3:04:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 61 | mg/Kg | 20 | 5/18/2023 5:21:15 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-45 2' **CLIENT:** Vertex Resources Services, Inc.

Cotton Draw Unit 1 12 CTB Collection Date: 5/11/2023 9:25:00 AM **Project:** Lab ID: 2305754-005 Matrix: SOIL Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.1 | mg/Kg | 1 | 5/16/2023 2:52:32 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 5/16/2023 2:52:32 PM |
| Surr: DNOP | 97.6 | 69-147 | %Rec | 1 | 5/16/2023 2:52:32 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/20/2023 3:26:00 AM |
| Surr: BFB | 87.3 | 15-244 | %Rec | 1 | 5/20/2023 3:26:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 3:26:00 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/20/2023 3:26:00 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/20/2023 3:26:00 AM |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 5/20/2023 3:26:00 AM |
| Surr: 4-Bromofluorobenzene | 85.0 | 39.1-146 | %Rec | 1 | 5/20/2023 3:26:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/18/2023 5:33:35 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- P Sample pH Not In Range
- Page 5 of 44 Reporting Limit

Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-45 3.5'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 9:30:00 AM

 Lab ID:
 2305754-006
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 5/16/2023 3:03:21 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 5/16/2023 3:03:21 PM |
| Surr: DNOP | 96.0 | 69-147 | %Rec | 1 | 5/16/2023 3:03:21 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/20/2023 3:48:00 AM |
| Surr: BFB | 86.8 | 15-244 | %Rec | 1 | 5/20/2023 3:48:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/20/2023 3:48:00 AM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/20/2023 3:48:00 AM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/20/2023 3:48:00 AM |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 5/20/2023 3:48:00 AM |
| Surr: 4-Bromofluorobenzene | 84.7 | 39.1-146 | %Rec | 1 | 5/20/2023 3:48:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 95 | 60 | mg/Kg | 20 | 5/18/2023 6:10:38 PM |

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-46 0'

Project: Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 9:35:00 AM

 Lab ID: 2305754-007
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OF | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 8.7 | mg/Kg | 1 | 5/16/2023 3:14:10 PM |
| Motor Oil Range Organics (MRO) | ND | 43 | mg/Kg | 1 | 5/16/2023 3:14:10 PM |
| Surr: DNOP | 97.6 | 69-147 | %Rec | 1 | 5/16/2023 3:14:10 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/20/2023 4:09:00 AM |
| Surr: BFB | 85.4 | 15-244 | %Rec | 1 | 5/20/2023 4:09:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/20/2023 4:09:00 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 4:09:00 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 4:09:00 AM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/20/2023 4:09:00 AM |
| Surr: 4-Bromofluorobenzene | 84.4 | 39.1-146 | %Rec | 1 | 5/20/2023 4:09:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/18/2023 6:22:59 PM |

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-46 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 9:40:00 AM

 Lab ID:
 2305754-008
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.1 | mg/Kg | 1 | 5/16/2023 3:24:58 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 5/16/2023 3:24:58 PM |
| Surr: DNOP | 97.1 | 69-147 | %Rec | 1 | 5/16/2023 3:24:58 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/20/2023 4:31:00 AM |
| Surr: BFB | 86.5 | 15-244 | %Rec | 1 | 5/20/2023 4:31:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 4:31:00 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/20/2023 4:31:00 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/20/2023 4:31:00 AM |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 5/20/2023 4:31:00 AM |
| Surr: 4-Bromofluorobenzene | 84.8 | 39.1-146 | %Rec | 1 | 5/20/2023 4:31:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/18/2023 6:35:19 PM |

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-46 3.5'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 9:45:00 AM

 Lab ID:
 2305754-009
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 5/16/2023 3:35:47 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/16/2023 3:35:47 PM |
| Surr: DNOP | 100 | 69-147 | %Rec | 1 | 5/16/2023 3:35:47 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/20/2023 4:53:00 AM |
| Surr: BFB | 88.9 | 15-244 | %Rec | 1 | 5/20/2023 4:53:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/20/2023 4:53:00 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 4:53:00 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 4:53:00 AM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/20/2023 4:53:00 AM |
| Surr: 4-Bromofluorobenzene | 85.1 | 39.1-146 | %Rec | 1 | 5/20/2023 4:53:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 370 | 60 | mg/Kg | 20 | 5/18/2023 10:05:13 PM |

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-47 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 10:05:00 AM

 Lab ID:
 2305754-010
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OF | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 5/16/2023 3:47:19 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/16/2023 3:47:19 PM |
| Surr: DNOP | 101 | 69-147 | %Rec | 1 | 5/16/2023 3:47:19 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/20/2023 5:14:00 AM |
| Surr: BFB | 91.9 | 15-244 | %Rec | 1 | 5/20/2023 5:14:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/20/2023 5:14:00 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 5:14:00 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 5:14:00 AM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/20/2023 5:14:00 AM |
| Surr: 4-Bromofluorobenzene | 85.4 | 39.1-146 | %Rec | 1 | 5/20/2023 5:14:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 310 | 60 | mg/Kg | 20 | 5/18/2023 10:17:33 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-47 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 10:10:00 AM

 Lab ID:
 2305754-011
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.3 | mg/Kg | 1 | 5/16/2023 4:08:40 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 5/16/2023 4:08:40 PM |
| Surr: DNOP | 99.2 | 69-147 | %Rec | 1 | 5/16/2023 4:08:40 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/20/2023 5:57:00 AM |
| Surr: BFB | 85.9 | 15-244 | %Rec | 1 | 5/20/2023 5:57:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 5:57:00 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/20/2023 5:57:00 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/20/2023 5:57:00 AM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 5/20/2023 5:57:00 AM |
| Surr: 4-Bromofluorobenzene | 84.5 | 39.1-146 | %Rec | 1 | 5/20/2023 5:57:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 330 | 60 | mg/Kg | 20 | 5/18/2023 10:54:36 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-47 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 10:15:00 AM

 Lab ID:
 2305754-012
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|------------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE O | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.2 | mg/Kg | 1 | 5/16/2023 4:19:28 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 5/16/2023 4:19:28 PM |
| Surr: DNOP | 103 | 69-147 | %Rec | 1 | 5/16/2023 4:19:28 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/20/2023 6:19:00 AM |
| Surr: BFB | 87.4 | 15-244 | %Rec | 1 | 5/20/2023 6:19:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 6:19:00 AM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/20/2023 6:19:00 AM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/20/2023 6:19:00 AM |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 5/20/2023 6:19:00 AM |
| Surr: 4-Bromofluorobenzene | 85.5 | 39.1-146 | %Rec | 1 | 5/20/2023 6:19:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 270 | 60 | mg/Kg | 20 | 5/18/2023 11:06:56 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-48 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 10:20:00 AM

 Lab ID:
 2305754-013
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

Analyses Result **RL Qual Units** DF **Date Analyzed EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 8.7 5/17/2023 4:46:22 PM mg/Kg 1 Motor Oil Range Organics (MRO) ND mg/Kg 1 5/17/2023 4:46:22 PM 44 Surr: DNOP 5/17/2023 4:46:22 PM 82.0 69-147 %Rec 1 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 5/20/2023 6:41:00 AM 4.8 mg/Kg 1 Surr: BFB 86.8 15-244 %Rec 1 5/20/2023 6:41:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 0.024 5/20/2023 6:41:00 AM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 5/20/2023 6:41:00 AM Ethylbenzene ND 0.048 mg/Kg 1 5/20/2023 6:41:00 AM Xylenes, Total ND 0.095 mg/Kg 1 5/20/2023 6:41:00 AM Surr: 4-Bromofluorobenzene 85.3 39.1-146 %Rec 1 5/20/2023 6:41:00 AM **EPA METHOD 300.0: ANIONS** Analyst: SNS Chloride 5/18/2023 11:19:17 PM ND 60 mg/Kg 20

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-48 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 10:25:00 AM

 Lab ID:
 2305754-014
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 5/16/2023 4:40:59 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/16/2023 4:40:59 PM |
| Surr: DNOP | 92.5 | 69-147 | %Rec | 1 | 5/16/2023 4:40:59 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/20/2023 7:02:00 AM |
| Surr: BFB | 85.0 | 15-244 | %Rec | 1 | 5/20/2023 7:02:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 7:02:00 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/20/2023 7:02:00 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/20/2023 7:02:00 AM |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 5/20/2023 7:02:00 AM |
| Surr: 4-Bromofluorobenzene | 84.9 | 39.1-146 | %Rec | 1 | 5/20/2023 7:02:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/18/2023 11:31:38 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-48 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 10:30:00 AM

 Lab ID:
 2305754-015
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.7 | mg/Kg | 1 | 5/16/2023 4:51:43 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 5/16/2023 4:51:43 PM |
| Surr: DNOP | 95.0 | 69-147 | %Rec | 1 | 5/16/2023 4:51:43 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/20/2023 7:24:00 AM |
| Surr: BFB | 90.2 | 15-244 | %Rec | 1 | 5/20/2023 7:24:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 7:24:00 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/20/2023 7:24:00 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/20/2023 7:24:00 AM |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 5/20/2023 7:24:00 AM |
| Surr: 4-Bromofluorobenzene | 86.7 | 39.1-146 | %Rec | 1 | 5/20/2023 7:24:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/18/2023 11:43:59 PM |

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-49 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 10:55:00 AM

 Lab ID:
 2305754-016
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|---------------------------------------|--------|----------|---------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 5/16/2023 5:02:26 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/16/2023 5:02:26 PM |
| Surr: DNOP | 95.6 | 69-147 | %Rec | 1 | 5/16/2023 5:02:26 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/20/2023 7:46:00 AM |
| Surr: BFB | 87.8 | 15-244 | %Rec | 1 | 5/20/2023 7:46:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 7:46:00 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/20/2023 7:46:00 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/20/2023 7:46:00 AM |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 5/20/2023 7:46:00 AM |
| Surr: 4-Bromofluorobenzene | 85.0 | 39.1-146 | %Rec | 1 | 5/20/2023 7:46:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/18/2023 11:56:20 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-49 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 11:00:00 AM

 Lab ID:
 2305754-017
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 8.9 | mg/Kg | 1 | 5/16/2023 5:13:09 PM |
| Motor Oil Range Organics (MRO) | ND | 45 | mg/Kg | 1 | 5/16/2023 5:13:09 PM |
| Surr: DNOP | 93.9 | 69-147 | %Rec | 1 | 5/16/2023 5:13:09 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/20/2023 8:07:00 AM |
| Surr: BFB | 89.7 | 15-244 | %Rec | 1 | 5/20/2023 8:07:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 8:07:00 AM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/20/2023 8:07:00 AM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/20/2023 8:07:00 AM |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 5/20/2023 8:07:00 AM |
| Surr: 4-Bromofluorobenzene | 85.6 | 39.1-146 | %Rec | 1 | 5/20/2023 8:07:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 61 | mg/Kg | 20 | 5/19/2023 12:08:41 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-49 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 11:05:00 AM

 Lab ID:
 2305754-018
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|---------------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 8.4 | mg/Kg | 1 | 5/16/2023 5:23:51 PM |
| Motor Oil Range Organics (MRO) | ND | 42 | mg/Kg | 1 | 5/16/2023 5:23:51 PM |
| Surr: DNOP | 102 | 69-147 | %Rec | 1 | 5/16/2023 5:23:51 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/20/2023 8:29:00 AM |
| Surr: BFB | 88.3 | 15-244 | %Rec | 1 | 5/20/2023 8:29:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 8:29:00 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/20/2023 8:29:00 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/20/2023 8:29:00 AM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 5/20/2023 8:29:00 AM |
| Surr: 4-Bromofluorobenzene | 85.7 | 39.1-146 | %Rec | 1 | 5/20/2023 8:29:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/19/2023 12:21:01 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-50 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 11:15:00 AM

 Lab ID:
 2305754-019
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|---------------------------------------|--------|----------|---------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.0 | mg/Kg | 1 | 5/16/2023 5:34:32 PM |
| Motor Oil Range Organics (MRO) | ND | 45 | mg/Kg | 1 | 5/16/2023 5:34:32 PM |
| Surr: DNOP | 90.7 | 69-147 | %Rec | 1 | 5/16/2023 5:34:32 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/20/2023 8:51:00 AM |
| Surr: BFB | 87.8 | 15-244 | %Rec | 1 | 5/20/2023 8:51:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/20/2023 8:51:00 AM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/20/2023 8:51:00 AM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/20/2023 8:51:00 AM |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 5/20/2023 8:51:00 AM |
| Surr: 4-Bromofluorobenzene | 85.4 | 39.1-146 | %Rec | 1 | 5/20/2023 8:51:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 88 | 60 | mg/Kg | 20 | 5/19/2023 12:33:22 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-50 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 11:20:00 AM

 Lab ID:
 2305754-020
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.0 | mg/Kg | 1 | 5/16/2023 5:45:17 PM |
| Motor Oil Range Organics (MRO) | ND | 45 | mg/Kg | 1 | 5/16/2023 5:45:17 PM |
| Surr: DNOP | 99.6 | 69-147 | %Rec | 1 | 5/16/2023 5:45:17 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/20/2023 9:12:00 AM |
| Surr: BFB | 85.5 | 15-244 | %Rec | 1 | 5/20/2023 9:12:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/20/2023 9:12:00 AM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/20/2023 9:12:00 AM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/20/2023 9:12:00 AM |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 5/20/2023 9:12:00 AM |
| Surr: 4-Bromofluorobenzene | 85.4 | 39.1-146 | %Rec | 1 | 5/20/2023 9:12:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/19/2023 12:45:42 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-50 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 11:25:00 AM

 Lab ID:
 2305754-021
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 8.9 | mg/Kg | 1 | 5/19/2023 9:33:57 PM |
| Motor Oil Range Organics (MRO) | ND | 44 | mg/Kg | 1 | 5/19/2023 9:33:57 PM |
| Surr: DNOP | 118 | 69-147 | %Rec | 1 | 5/19/2023 9:33:57 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/19/2023 9:19:00 PM |
| Surr: BFB | 90.4 | 15-244 | %Rec | 1 | 5/19/2023 9:19:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/18/2023 8:16:00 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/18/2023 8:16:00 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/18/2023 8:16:00 PM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/18/2023 8:16:00 PM |
| Surr: 4-Bromofluorobenzene | 84.8 | 39.1-146 | %Rec | 1 | 5/18/2023 8:16:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/19/2023 1:22:45 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-51 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 11:35:00 AM

 Lab ID:
 2305754-022
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.2 | mg/Kg | 1 | 5/19/2023 9:44:53 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 5/19/2023 9:44:53 PM |
| Surr: DNOP | 133 | 69-147 | %Rec | 1 | 5/19/2023 9:44:53 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/19/2023 9:40:00 PM |
| Surr: BFB | 87.5 | 15-244 | %Rec | 1 | 5/19/2023 9:40:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/18/2023 8:37:00 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/18/2023 8:37:00 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/18/2023 8:37:00 PM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/18/2023 8:37:00 PM |
| Surr: 4-Bromofluorobenzene | 84.9 | 39.1-146 | %Rec | 1 | 5/18/2023 8:37:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/19/2023 1:35:05 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-51 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 11:40:00 AM

 Lab ID:
 2305754-023
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|---------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OI | RGANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 5/19/2023 9:55:46 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 5/19/2023 9:55:46 PM |
| Surr: DNOP | 109 | 69-147 | %Rec | 1 | 5/19/2023 9:55:46 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/19/2023 10:02:00 PM |
| Surr: BFB | 84.8 | 15-244 | %Rec | 1 | 5/19/2023 10:02:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/18/2023 8:59:00 PM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/18/2023 8:59:00 PM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/18/2023 8:59:00 PM |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 5/18/2023 8:59:00 PM |
| Surr: 4-Bromofluorobenzene | 83.6 | 39.1-146 | %Rec | 1 | 5/18/2023 8:59:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/19/2023 1:47:25 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-51 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 11:45:00 AM

 Lab ID:
 2305754-024
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OI | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.3 | mg/Kg | 1 | 5/19/2023 10:17:19 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 5/19/2023 10:17:19 PM |
| Surr: DNOP | 124 | 69-147 | %Rec | 1 | 5/19/2023 10:17:19 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/19/2023 10:23:00 PM |
| Surr: BFB | 91.4 | 15-244 | %Rec | 1 | 5/19/2023 10:23:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/18/2023 9:21:00 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/18/2023 9:21:00 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/18/2023 9:21:00 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/18/2023 9:21:00 PM |
| Surr: 4-Bromofluorobenzene | 81.5 | 39.1-146 | %Rec | 1 | 5/18/2023 9:21:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/19/2023 1:59:46 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-52 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 12:00:00 PM

 Lab ID:
 2305754-025
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.7 | mg/Kg | 1 | 5/18/2023 12:58:03 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 5/18/2023 12:58:03 PM |
| Surr: DNOP | 90.3 | 69-147 | %Rec | 1 | 5/18/2023 12:58:03 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 5/19/2023 7:21:54 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | Γ | | | | Analyst: JR |
| Benzene | ND | 0.023 | mg/Kg | 1 | 5/18/2023 10:43:38 PM |
| Toluene | ND | 0.046 | mg/Kg | 1 | 5/18/2023 10:43:38 PM |
| Ethylbenzene | ND | 0.046 | mg/Kg | 1 | 5/18/2023 10:43:38 PM |
| Xylenes, Total | ND | 0.093 | mg/Kg | 1 | 5/18/2023 10:43:38 PM |
| Surr: 1,2-Dichloroethane-d4 | 115 | 64.8-147 | %Rec | 1 | 5/18/2023 10:43:38 PM |
| Surr: 4-Bromofluorobenzene | 97.0 | 62.1-144 | %Rec | 1 | 5/18/2023 10:43:38 PM |
| Surr: Dibromofluoromethane | 123 | 73-145 | %Rec | 1 | 5/18/2023 10:43:38 PM |
| Surr: Toluene-d8 | 96.5 | 70-130 | %Rec | 1 | 5/18/2023 10:43:38 PM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | E | | | | Analyst: JR |
| Gasoline Range Organics (GRO) | ND | 4.6 | mg/Kg | 1 | 5/18/2023 10:43:38 PM |
| Surr: BFB | 104 | 70-130 | %Rec | 1 | 5/18/2023 10:43:38 PM |

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

Lab ID: 2305754-026 **Matrix:** SOIL

Collection Date: 5/11/2023 12:05:00 PM Received Date: 5/13/2023 7:30:00 AM

Client Sample ID: BH23-52 2'

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|---------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OI | RGANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/18/2023 1:08:49 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/18/2023 1:08:49 PM |
| Surr: DNOP | 110 | 69-147 | %Rec | 1 | 5/18/2023 1:08:49 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 5/19/2023 7:34:18 PM |
| EPA METHOD 8260B: VOLATILES SHORT I | LIST | | | | Analyst: JR |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/19/2023 1:42:19 AM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/19/2023 1:42:19 AM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/19/2023 1:42:19 AM |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 5/19/2023 1:42:19 AM |
| Surr: 1,2-Dichloroethane-d4 | 112 | 64.8-147 | %Rec | 1 | 5/19/2023 1:42:19 AM |
| Surr: 4-Bromofluorobenzene | 96.6 | 62.1-144 | %Rec | 1 | 5/19/2023 1:42:19 AM |
| Surr: Dibromofluoromethane | 120 | 73-145 | %Rec | 1 | 5/19/2023 1:42:19 AM |
| Surr: Toluene-d8 | 93.2 | 70-130 | %Rec | 1 | 5/19/2023 1:42:19 AM |
| EPA METHOD 8015D MOD: GASOLINE RAM | NGE | | | | Analyst: JR |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/19/2023 1:42:19 AM |
| Surr: BFB | 104 | 70-130 | %Rec | 1 | 5/19/2023 1:42:19 AM |

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- J Analyte detected below quP Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-52 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 12:10:00 PM

 Lab ID:
 2305754-027
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|-------------------------------------|---------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OF | RGANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/18/2023 4:03:29 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/18/2023 4:03:29 PM |
| Surr: DNOP | 114 | 69-147 | %Rec | 1 | 5/18/2023 4:03:29 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 5/19/2023 9:01:11 PM |
| EPA METHOD 8260B: VOLATILES SHORT L | IST | | | | Analyst: JR |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/19/2023 2:12:08 AM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/19/2023 2:12:08 AM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/19/2023 2:12:08 AM |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 5/19/2023 2:12:08 AM |
| Surr: 1,2-Dichloroethane-d4 | 112 | 64.8-147 | %Rec | 1 | 5/19/2023 2:12:08 AM |
| Surr: 4-Bromofluorobenzene | 97.5 | 62.1-144 | %Rec | 1 | 5/19/2023 2:12:08 AM |
| Surr: Dibromofluoromethane | 117 | 73-145 | %Rec | 1 | 5/19/2023 2:12:08 AM |
| Surr: Toluene-d8 | 97.2 | 70-130 | %Rec | 1 | 5/19/2023 2:12:08 AM |
| EPA METHOD 8015D MOD: GASOLINE RAN | IGE | | | | Analyst: JR |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/19/2023 2:12:08 AM |
| Surr: BFB | 106 | 70-130 | %Rec | 1 | 5/19/2023 2:12:08 AM |

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-53 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 12:20:00 PM

 Lab ID:
 2305754-028
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|------------------------------------|---------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE O | RGANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 5/18/2023 4:36:07 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/18/2023 4:36:07 PM |
| Surr: DNOP | 82.3 | 69-147 | %Rec | 1 | 5/18/2023 4:36:07 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | 89 | 60 | mg/Kg | 20 | 5/19/2023 9:13:36 PM |
| EPA METHOD 8260B: VOLATILES SHORT | LIST | | | | Analyst: JR |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/19/2023 2:41:56 AM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/19/2023 2:41:56 AM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/19/2023 2:41:56 AM |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 5/19/2023 2:41:56 AM |
| Surr: 1,2-Dichloroethane-d4 | 110 | 64.8-147 | %Rec | 1 | 5/19/2023 2:41:56 AM |
| Surr: 4-Bromofluorobenzene | 95.5 | 62.1-144 | %Rec | 1 | 5/19/2023 2:41:56 AM |
| Surr: Dibromofluoromethane | 119 | 73-145 | %Rec | 1 | 5/19/2023 2:41:56 AM |
| Surr: Toluene-d8 | 96.0 | 70-130 | %Rec | 1 | 5/19/2023 2:41:56 AM |
| EPA METHOD 8015D MOD: GASOLINE RA | NGE | | | | Analyst: JR |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/19/2023 2:41:56 AM |
| Surr: BFB | 104 | 70-130 | %Rec | 1 | 5/19/2023 2:41:56 AM |

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-53 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 12:25:00 PM

 Lab ID:
 2305754-029
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--|----------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE (| ORGANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 5/18/2023 4:46:58 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/18/2023 4:46:58 PM |
| Surr: DNOP | 98.1 | 69-147 | %Rec | 1 | 5/18/2023 4:46:58 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 59 | mg/Kg | 20 | 5/19/2023 9:26:01 PM |
| EPA METHOD 8260B: VOLATILES SHORT | LIST | | | | Analyst: JR |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/19/2023 3:11:40 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/19/2023 3:11:40 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/19/2023 3:11:40 AM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/19/2023 3:11:40 AM |
| Surr: 1,2-Dichloroethane-d4 | 111 | 64.8-147 | %Rec | 1 | 5/19/2023 3:11:40 AM |
| Surr: 4-Bromofluorobenzene | 97.6 | 62.1-144 | %Rec | 1 | 5/19/2023 3:11:40 AM |
| Surr: Dibromofluoromethane | 115 | 73-145 | %Rec | 1 | 5/19/2023 3:11:40 AM |
| Surr: Toluene-d8 | 95.9 | 70-130 | %Rec | 1 | 5/19/2023 3:11:40 AM |
| EPA METHOD 8015D MOD: GASOLINE RA | ANGE | | | | Analyst: JR |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/19/2023 3:11:40 AM |
| Surr: BFB | 105 | 70-130 | %Rec | 1 | 5/19/2023 3:11:40 AM |

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

Lab ID: 2305754-030

Client Sample ID: BH23-53 4'

Collection Date: 5/11/2023 12:30:00 PM Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--|----------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/18/2023 4:57:46 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/18/2023 4:57:46 PM |
| Surr: DNOP | 105 | 69-147 | %Rec | 1 | 5/18/2023 4:57:46 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 5/19/2023 9:38:25 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | Γ | | | | Analyst: JR |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/19/2023 3:41:38 AM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/19/2023 3:41:38 AM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/19/2023 3:41:38 AM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/19/2023 3:41:38 AM |
| Surr: 1,2-Dichloroethane-d4 | 113 | 64.8-147 | %Rec | 1 | 5/19/2023 3:41:38 AM |
| Surr: 4-Bromofluorobenzene | 97.8 | 62.1-144 | %Rec | 1 | 5/19/2023 3:41:38 AM |
| Surr: Dibromofluoromethane | 117 | 73-145 | %Rec | 1 | 5/19/2023 3:41:38 AM |
| Surr: Toluene-d8 | 95.4 | 70-130 | %Rec | 1 | 5/19/2023 3:41:38 AM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | = | | | | Analyst: JR |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/19/2023 3:41:38 AM |
| Surr: BFB | 107 | 70-130 | %Rec | 1 | 5/19/2023 3:41:38 AM |

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-54 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 12:40:00 PM

 Lab ID:
 2305754-031
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|--|--------|----------|---------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/18/2023 5:08:33 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/18/2023 5:08:33 PM |
| Surr: DNOP | 91.4 | 69-147 | %Rec | 1 | 5/18/2023 5:08:33 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 5/19/2023 9:50:50 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | Analyst: JR |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/19/2023 4:11:25 AM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/19/2023 4:11:25 AM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/19/2023 4:11:25 AM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/19/2023 4:11:25 AM |
| Surr: 1,2-Dichloroethane-d4 | 114 | 64.8-147 | %Rec | 1 | 5/19/2023 4:11:25 AM |
| Surr: 4-Bromofluorobenzene | 94.6 | 62.1-144 | %Rec | 1 | 5/19/2023 4:11:25 AM |
| Surr: Dibromofluoromethane | 117 | 73-145 | %Rec | 1 | 5/19/2023 4:11:25 AM |
| Surr: Toluene-d8 | 95.9 | 70-130 | %Rec | 1 | 5/19/2023 4:11:25 AM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | Analyst: JR |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/19/2023 4:11:25 AM |
| Surr: BFB | 105 | 70-130 | %Rec | 1 | 5/19/2023 4:11:25 AM |

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-54 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 12:45:00 PM

 Lab ID:
 2305754-032
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qu | ıal Units | DF | Date Analyzed |
|--|--------|----------|-----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.9 | mg/Kg | 1 | 5/18/2023 5:19:18 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/18/2023 5:19:18 PM |
| Surr: DNOP | 86.2 | 69-147 | %Rec | 1 | 5/18/2023 5:19:18 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 5/19/2023 10:03:14 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | Ī | | | | Analyst: JR |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/19/2023 4:41:11 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/19/2023 4:41:11 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/19/2023 4:41:11 AM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 5/19/2023 4:41:11 AM |
| Surr: 1,2-Dichloroethane-d4 | 115 | 64.8-147 | %Rec | 1 | 5/19/2023 4:41:11 AM |
| Surr: 4-Bromofluorobenzene | 101 | 62.1-144 | %Rec | 1 | 5/19/2023 4:41:11 AM |
| Surr: Dibromofluoromethane | 120 | 73-145 | %Rec | 1 | 5/19/2023 4:41:11 AM |
| Surr: Toluene-d8 | 93.5 | 70-130 | %Rec | 1 | 5/19/2023 4:41:11 AM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | į | | | | Analyst: JR |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/19/2023 4:41:11 AM |
| Surr: BFB | 104 | 70-130 | %Rec | 1 | 5/19/2023 4:41:11 AM |

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-54 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/11/2023 12:50:00 PM

 Lab ID:
 2305754-033
 Matrix: SOIL
 Received Date: 5/13/2023 7:30:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|---|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/18/2023 5:30:03 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/18/2023 5:30:03 PM |
| Surr: DNOP | 92.1 | 69-147 | %Rec | 1 | 5/18/2023 5:30:03 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 5/19/2023 10:40:28 PM |
| EPA METHOD 8260B: VOLATILES SHORT LIST | | | | | Analyst: JR |
| Benzene | ND | 0.023 | mg/Kg | 1 | 5/19/2023 5:11:00 AM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/19/2023 5:11:00 AM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/19/2023 5:11:00 AM |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 5/19/2023 5:11:00 AM |
| Surr: 1,2-Dichloroethane-d4 | 110 | 64.8-147 | %Rec | 1 | 5/19/2023 5:11:00 AM |
| Surr: 4-Bromofluorobenzene | 96.8 | 62.1-144 | %Rec | 1 | 5/19/2023 5:11:00 AM |
| Surr: Dibromofluoromethane | 118 | 73-145 | %Rec | 1 | 5/19/2023 5:11:00 AM |
| Surr: Toluene-d8 | 96.5 | 70-130 | %Rec | 1 | 5/19/2023 5:11:00 AM |
| EPA METHOD 8015D MOD: GASOLINE RANGE | | | | | Analyst: JR |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/19/2023 5:11:00 AM |
| Surr: BFB | 107 | 70-130 | %Rec | 1 | 5/19/2023 5:11:00 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT

Client:

Hall Environmental Analysis Laboratory, Inc.

Vertex Resources Services, Inc.

WO#: 2305754

24-May-23

| Project: Cotton | Draw Unit 1 12 CTB | | | |
|----------------------|--------------------------|---------------------------|----------------|---------------|
| Sample ID: MB-75028 | SampType: MBLK | TestCode: EPA Method | 300.0: Anions | |
| Client ID: PBS | Batch ID: 75028 | RunNo: 96877 | | |
| Prep Date: 5/18/2023 | Analysis Date: 5/18/2023 | SeqNo: 3514287 | Units: mg/Kg | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Chloride | ND 1.5 | | | |
| Sample ID: LCS-75028 | SampType: LCS | TestCode: EPA Method | 300.0: Anions | |
| Client ID: LCSS | Batch ID: 75028 | RunNo: 96877 | | |
| Prep Date: 5/18/2023 | Analysis Date: 5/18/2023 | SeqNo: 3514288 | Units: mg/Kg | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Chloride | 14 1.5 15.00 | 0 94.5 90 | 110 | |

| Sample ID: MB-75044 | SampT | уре: МЕ | BLK | Tes | PA Method | 300.0: Anions | 3 | | | |
|----------------------|------------|-----------------|-----------|-------------|-----------|---------------|-------------|------|----------|------|
| Client ID: PBS | Batch | ID: 75 0 |)44 | F | RunNo: 90 | 6877 | | | | |
| Prep Date: 5/18/2023 | Analysis D | ate: 5/ | 18/2023 | 9 | SeqNo: 3 | 514319 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND | 1.5 | | | | | | | | |

| Sample ID: | LCS-75044 | SampT | ype: LC : | S | Tes | tCode: EF | PA Method | 300.0: Anions | • | | |
|------------|-----------|-------------|------------------|-----------|-------------|------------------|-----------|---------------|------|----------|------|
| Client ID: | LCSS | Batch | ID: 750 |)44 | F | RunNo: 96 | 877 | | | | |
| Prep Date: | 5/18/2023 | Analysis Da | ate: 5/ 1 | 18/2023 | 5 | SeqNo: 35 | 514320 | Units: mg/K | g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | | 14 | 1.5 | 15.00 | 0 | 95.0 | 90 | 110 | | | |

| Sample ID: MB-75067 | SampType: MBLK | SampType: MBLK TestCode: EPA Method 300.0: Anions | | | | | | | |
|----------------------|--------------------------|---|------|--|--|--|--|--|--|
| Client ID: PBS | Batch ID: 75067 | RunNo: 96890 | | | | | | | |
| Prep Date: 5/19/2023 | Analysis Date: 5/19/2023 | SeqNo: 3514791 Units: mg/Kg | | | | | | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit | Qual | | | | | | |
| Chloride | ND 15 | | | | | | | | |

| Sample ID: LCS-75067 | SampType: LCS | TestCode: EPA Method 300.0: Anions | |
|----------------------|--------------------------|--|-------------------|
| Client ID: LCSS | Batch ID: 75067 | RunNo: 96890 | |
| Prep Date: 5/19/2023 | Analysis Date: 5/19/2023 | SeqNo: 3514792 Units: mg/Kg | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit HighLimit %F | RPD RPDLimit Qual |
| Chloride | 14 1.5 15.00 | 0 91.3 90 110 | _ |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2305754 24-May-23

| Client: | Vertex Resources Services, Inc. |
|----------|---------------------------------|
| Project: | Cotton Draw Unit 1 12 CTB |

| Sample ID: MB-74969 | SampType: N | SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
|--------------------------------|--------------------------|---|-----------------------|------------------------------------|---------------------|--------------|-----------|----------|------|
| Client ID: PBS | Batch ID: 7 | 4969 | RunNo: 96783 | | | | | | |
| Prep Date: 5/15/2023 | Analysis Date: 5/16/2023 | | SeqNo: 3510134 | | Units: mg/Kg | | | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND 1 | 0 | | | | | | | |
| Motor Oil Range Organics (MRO) | ND 5 | 0 | | | | | | | |
| Surr: DNOP | 9.5 | 10.00 | | 94.9 | 69 | 147 | | | |
| Sample ID: 2305754-001AM | S SampType: I | SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
| Client ID: BH23-44 0' | Batch ID: 7 | Batch ID: 74969 | | RunNo: 96783 | | | | | |
| Prep Date: 5/15/2023 | Analysis Date: | Analysis Date: 5/17/2023 | | SeqNo: 3510924 | | Units: mg/Kg | | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 42 8. | 7 43.44 | 0 | 96.5 | 54.2 | 135 | | | |
| Surr: DNOP | 4.3 | 4.344 | | 98.6 | 69 | 147 | | | |
| Sample ID: 2305754-001AM | SD SampType: N | D SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
| Client ID: BH23-44 0' | Batch ID: 7 | Batch ID: 74969 | | RunNo: 96783 | | | | | |
| Prep Date: 5/15/2023 | Analysis Date: | Analysis Date: 5/17/2023 | | SeqNo: 3510925 Units: mg/Kg | | | g | | |
| Analyte | Result PQL | . SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 44 9. | 6 47.94 | 0 | 91.3 | 54.2 | 135 | 4.33 | 29.2 | |
| Surr: DNOP | 4.3 | 4.794 | | 90.1 | 69 | 147 | 0 | 0 | |
| Sample ID: LCS-74969 | SampType: L | SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | |
| Client ID: LCSS | Batch ID: 7 | Batch ID: 74969 | | | RunNo: 96783 | | | | |
| Prep Date: 5/15/2023 | Analysis Date: | Analysis Date: 5/16/2023 SeqNo: 3510973 | | | Units: mg/Kg | | | | |
| Analyte | Result PQL | . SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47 1 | 0 50.00 | 0 | 94.3 | 61.9 | 130 | | | |
| Surr: DNOP | 4.7 | 5.000 | | 94.3 | 69 | 147 | | | |
| Sample ID: 2305754-026AM | S SampType: I | //S | Tes | stCode: EP | A Method | 8015M/D: Die | sel Range | Organics | |
| Client ID: BH23-52 2' | Batch ID: 7 | Batch ID: 75011 | | RunNo: 96864 | | | | | |
| Prep Date: 5/17/2023 | Analysis Date: | 5/18/2023 | ; | SeqNo: 351 | 13463 | Units: mg/K | g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 45 9. | 7 48.69 | 0 | 91.5 | 54.2 | 135 | | | |
| Surr: DNOP | 4.5 | 4.869 | | 93.4 | 69 | 147 | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305754**

24-May-23

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: 2305754-026AMSD | SampT | уре: МЅ | D | Tes | tCode: EF | PA Method | 8015M/D: Die | sel Range | Organics | |
|------------------------------|---|------------------|-----------|-------------|-----------|-----------|--------------|-----------|----------|------|
| Client ID: BH23-52 2' | Batch | ID: 750 | 11 | F | RunNo: 90 | 6864 | | | | |
| Prep Date: 5/17/2023 | Analysis D | ate: 5/ 1 | 18/2023 | 9 | SeqNo: 3 | 513464 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 57 | 10 | 50.30 | 0 | 114 | 54.2 | 135 | 25.1 | 29.2 | |
| Surr: DNOP | 5.7 | | 5.030 | | 113 | 69 | 147 | 0 | 0 | |
| Sample ID: 2305754-027AMS | 027AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | | | | |

| Campic IB: 2303734-027AIIIO | Odmpi | ypo. IIIC | • | 100 | todac. Li | Ailiculou | OU I SINI/D. DIC | sei italige | Organics | |
|-----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|------------------|-------------|----------|------|
| Client ID: BH23-52 4' | Batch | n ID: 75 0 | 017 | F | RunNo: 96 | 6864 | | | | |
| Prep Date: 5/17/2023 | Analysis D | Date: 5/ * | 18/2023 | 5 | SeqNo: 3 | 513466 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 42 | 9.3 | 46.25 | 0 | 91.8 | 54.2 | 135 | | | |
| Surr: DNOP | 4.4 | | 4.625 | | 94.8 | 69 | 147 | | | |

| Sample ID: | 2305754-027AMSD | SampT | ype: MS | SD | Tes | tCode: EF | PA Method | 8015M/D: Die | sel Range | Organics | |
|--------------|-----------------|------------|-------------------|-----------|-------------|-----------|-----------|--------------|-----------|----------|------|
| Client ID: | BH23-52 4' | Batch | n ID: 75 0 | 017 | F | RunNo: 90 | 6864 | | | | |
| Prep Date: | 5/17/2023 | Analysis D | Date: 5/ | 18/2023 | 5 | SeqNo: 3 | 513467 | Units: mg/K | g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range | Organics (DRO) | 46 | 10 | 50.40 | 0 | 91.0 | 54.2 | 135 | 7.66 | 29.2 | |
| Surr: DNOP | | 4.3 | | 5.040 | | 86.1 | 69 | 147 | 0 | 0 | |

| Sample ID: LCS-75011 | SampT | ype: LC | S | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|-----------------------------|------------|----------------|-----------|---|-----------|----------|-------------|------|----------|------|
| Client ID: LCSS | Batch | ID: 750 | 011 | F | RunNo: 90 | 6864 | | | | |
| Prep Date: 5/17/2023 | Analysis D | ate: 5/ | 18/2023 | 5 | SeqNo: 3 | 513540 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 49 | 10 | 50.00 | 0 | 97.9 | 61.9 | 130 | | | |
| Surr: DNOP | 4.6 | | 5.000 | | 92.6 | 69 | 147 | | | |

| Sample ID: LCS-75017 | SampT | ype: LC | S | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|-----------------------------|------------|-----------------|-----------|---|-----------|----------|-------------|------|----------|------|
| Client ID: LCSS | Batch | ID: 75 0 | 17 | F | RunNo: 96 | 8864 | | | | |
| Prep Date: 5/17/2023 | Analysis D | ate: 5/ | 18/2023 | 5 | SeqNo: 35 | 513541 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 43 | 10 | 50.00 | 0 | 85.4 | 61.9 | 130 | | | |
| Surr: DNOP | 4.2 | | 5.000 | | 84.3 | 69 | 147 | | | |

| Sample ID: MB-75011 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diesel Range Organics | |
|----------------------|--------------------------|--|--|
| Client ID: PBS | Batch ID: 75011 | RunNo: 96864 | |
| Prep Date: 5/17/2023 | Analysis Date: 5/18/2023 | SeqNo: 3513544 Units: mg/Kg | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305754**

24-May-23

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: MB-75011 | SampT | Гуре: МЕ | BLK | Tes | tCode: EF | PA Method | 8015M/D: Die | sel Range | Organics | |
|---|---|------------------------------------|---------------------------------------|---------------|---|---|---|------------------------|-----------------------|------|
| Client ID: PBS | Batch | h ID: 75 0 | 011 | F | RunNo: 96 | 6864 | | | | |
| Prep Date: 5/17/2023 | Analysis D |)ate: 5/ | 18/2023 | 5 | SeqNo: 3 | 513544 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) Surr: DNOP | ND 9.3 | 50 | 10.00 | | 92.9 | 69 | 147 | | | |
| Suii. DNOF | 9.5 | | 10.00 | | 92.9 | 09 | 147 | | | |
| Sample ID: MB-75017 | SampT | Гуре: МЕ | BLK | Tes | tCode: EF | PA Method | 8015M/D: Die | sel Range | Organics | |
| Client ID: PBS | Batch | h ID: 75 0 | 017 | F | RunNo: 96 | 6864 | | | | |
| Prep Date: 5/17/2023 | Analysis D |)ate: 5/ | 18/2023 | 5 | SeqNo: 3 | 513545 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) Surr: DNOP | ND 9.3 | 50 | 10.00 | | 93.3 | 69 | 147 | | | |
| Odil. Bitol | 9.5 | | 10.00 | | 33.3 | | 177 | | | |
| Sample ID: 2305754-024AMS | SampT | SampType: MS | | | | | 8015M/D: Die | sel Range | Organics | |
| Client ID: BH23-51 4' | Batch | h ID: 750 |)18 | F | RunNo: 90 | 6907 | | | | |
| Prep Date: 5/18/2023 | Analysis D |)ate: 5/ | 19/2023 | Ş | SeqNo: 3 | 515373 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 51 | 10 | 49.95 | 0 | 102 | 54.2 | 135 | | | |
| Surr: DNOP | 5.3 | | 4.995 | | 105 | 69 | 147 | | | |
| Sample ID: 2305754-024AMSD | SampT | Гуре: МЅ | SD . | Tes | tCode: EF | PA Method | 8015M/D: Die | sel Range | Organics | |
| Client ID: BH23-51 4' | Batch | h ID: 75 0 | 018 | F | RunNo: 90 | 6907 | | | | |
| Prep Date: 5/18/2023 | Analysis D |)ate: 5/ | 19/2023 | 5 | SeqNo: 3 | 515374 | Units: mg/K | g | | |
| ' | • | • | | | | | _ | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Analyte Diesel Range Organics (DRO) | 49 | | 48.12 | SPK Ref Val | 101 | 54.2 | 135 | 4.87 | 29.2 | Qual |
| Analyte | | PQL | | | | | | | | Qual |
| Analyte Diesel Range Organics (DRO) | 49 4.9 | PQL | 48.12 4.812 | 0 | 101 101 | 54.2 69 | 135 | 4.87 0 | 29.2 0 | Qual |
| Analyte Diesel Range Organics (DRO) Surr: DNOP | 49 4.9 SampT | PQL 9.6 | 48.12 4.812 | 0 Tes | 101 101 | 54.2 69 PA Method | 135 147 | 4.87 0 | 29.2 0 | Qual |
| Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-75018 | 49 4.9 SampT | 9.6 Fype: LC | 48.12 4.812 S | 0 Tes F | 101 101 tCode: EF | 54.2 69 PA Method 6907 | 135 147 | 4.87 0 sel Range | 29.2 0 | Qual |
| Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-75018 Client ID: LCSS | 49 4.9 SampT Batch | 9.6 Fype: LC | 48.12 4.812 S | 0 Tes F | 101 101 tCode: EF RunNo: 96 | 54.2 69 PA Method 6907 | 135 147 8015M/D: Die | 4.87 0 sel Range | 29.2 0 | Qual |
| Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-75018 Client ID: LCSS Prep Date: 5/17/2023 | 49 4.9 SampT Batch Analysis D | 9.6 Type: LC h ID: 750 Date: 5/ | 48.12 4.812 S 018 19/2023 | 0 Tes F | 101 101 tCode: EF RunNo: 96 SeqNo: 3 5 | 54.2 69 PA Method 6907 515397 | 135 147 8015M/D: Die Units: mg/K | 4.87 0 sel Range | 29.2 0 Organics | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

24-May-23

2305754

WO#:

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: MB-75018 | SampT | SampType: MBLK | | | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | |
|--------------------------------|------------|------------------|-----------|-------------|---|----------|-------------|------|----------|------|
| Client ID: PBS | Batch | 1D: 750 |)18 | F | RunNo: 96 | 6907 | | | | |
| Prep Date: 5/17/2023 | Analysis D | ate: 5/ 1 | 19/2023 | 5 | SeqNo: 35 | 515401 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | |
| Surr: DNOP | 12 | | 10.00 | | 116 | 69 | 147 | | | |

| Sample ID: LCS-75018 | SampT | ype: LC | S | Tes | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|-----------------------------|------------|------------------|-----------|-------------|---|----------|-------------|------|----------|------|--|
| Client ID: LCSS | Batch | n ID: 750 |)18 | F | RunNo: 90 | 6925 | | | | | |
| Prep Date: 5/17/2023 | Analysis D | oate: 5/2 | 22/2023 | 9 | SeqNo: 3 | 517131 | Units: mg/K | g | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Diesel Range Organics (DRO) | 49 | 10 | 50.00 | 0 | 97.6 | 61.9 | 130 | | | | |
| Surr: DNOP | 5.3 | | 5.000 | | 106 | 69 | 147 | | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2305754

24-May-23

| Project: | Cotton Draw Unit 1 12 CTB |
|----------|---------------------------------|
| Chent: | vertex Resources Services, Inc. |

| Project: | Cotton Di | aw Unit 1 | 12 CT | D | | | | | | | |
|---------------|------------------|------------|------------------|-----------|-------------|-----------|-----------|-------------|------------|----------|------|
| Sample ID: | mb-74988 | SampT | уре: МЕ | BLK | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | 1 | |
| Client ID: | PBS | Batch | ID: 74 9 | 988 | F | RunNo: 90 | 6906 | | | | |
| Prep Date: | 5/16/2023 | Analysis D | ate: 5/ | 19/2023 | 5 | SeqNo: 3 | 515415 | Units: mg/K | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| _ | e Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | | 900 | | 1000 | | 90.5 | 15 | 244 | | | |
| Sample ID: | lcs-74988 | SampT | ype: LC | S | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | ! | |
| Client ID: | LCSS | Batch | ID: 74 9 | 988 | F | RunNo: 90 | 6906 | | | | |
| Prep Date: | 5/16/2023 | Analysis D | ate: 5/ | 19/2023 | 9 | SeqNo: 3 | 515416 | Units: mg/k | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Rang | e Organics (GRO) | 24 | 5.0 | 25.00 | 0 | 94.6 | 70 | 130 | | | |
| Surr: BFB | | 1900 | | 1000 | | 191 | 15 | 244 | | | |
| Sample ID: | 2305754-001ams | SampT | ype: MS | 3 | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | | |
| Client ID: | BH23-44 0' | Batch | ID: 74 9 | 964 | F | RunNo: 90 | 6906 | | | | |
| Prep Date: | 5/15/2023 | Analysis D | ate: 5/ 2 | 20/2023 | 5 | SeqNo: 3 | 515446 | Units: mg/K | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| _ | e Organics (GRO) | 20 | 4.9 | 24.44 | 0 | 80.6 | 70 | 130 | | | |
| Surr: BFB | | 1900 | | 977.5 | | 191 | 15 | 244 | | | |
| Sample ID: | 2305754-001amsd | SampT | уре: МЅ | SD . | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | ! | |
| Client ID: | BH23-44 0' | Batch | ID: 74 9 | 964 | F | RunNo: 90 | 6906 | | | | |
| Prep Date: | 5/15/2023 | Analysis D | ate: 5/ 2 | 20/2023 | 9 | SeqNo: 3 | 515447 | Units: mg/k | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Rang | e Organics (GRO) | 20 | 4.9 | 24.30 | 0 | 83.4 | 70 | 130 | 2.83 | 20 | |
| Surr: BFB | | 1900 | | 971.8 | | 195 | 15 | 244 | 0 | 0 | |
| Sample ID: | mb-74964 | SampT | уре: МЕ | BLK | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | | |
| Client ID: | PBS | Batch | ID: 74 9 | 964 | F | RunNo: 90 | 6906 | | | | |
| Prep Date: | 5/15/2023 | Analysis D | ate: 5/ | 19/2023 | 9 | SeqNo: 3 | 515469 | Units: mg/k | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Rang | e Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | | 870 | | 1000 | | 87.5 | 15 | 244 | | | |
| Sample ID: | lcs-74964 | SampT | ype: LC | S | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | 1 | |
| Client ID: | LCSS | Batch | ID: 74 9 | 964 | F | RunNo: 96 | 6906 | | | | |
| Prep Date: | 5/15/2023 | Analysis D | ate: 5/ | 19/2023 | 5 | SeqNo: 3 | 515470 | Units: mg/K | (g | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305754**

24-May-23

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

Sample ID: Ics-74964 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 74964 RunNo: 96906 Prep Date: 5/15/2023 Analysis Date: 5/19/2023 SeqNo: 3515470 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

 Gasoline Range Organics (GRO)
 21
 5.0
 25.00
 0
 82.6
 70
 130

 Surr: BFB
 1900
 1000
 190
 15
 244

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305754**

24-May-23

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

| Toluene 0.87 0.050 1.000 0 87.2 70 130 Ethylbenzene 0.85 0.050 1.000 0 84.8 70 130 Xylenes, Total 2.5 0.10 3.000 0 83.9 70 130 Surr: 4-Browofluorobenzene 0.86 1.000 86.4 39.1 146 Sample ID: mb-74988 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 74988 RunNo: 96869 Prep Date: 5/16/2023 Analysis Date: 5/18/2023 SeqNo: 3513976 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val REC LowLimit HighLimit RAPD RPDLimit Qual Benzene ND 0.050 Ethylbenzene ND 0.050 Surr: 4-Browofluorobenzene 0.85 1.000 84.9 39.1 146 Sample ID: mb-74964 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 74964 RunNo: 96906 Prep Date: 5/15/2023 Analysis Date: 5/19/2023 SeqNo: 3515482 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val RunNo: 96906 Frep Date: 5/15/2023 Analysis Date: 5/19/2023 SeqNo: 3515482 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val RunNo: 96906 Frep Date: 5/15/2023 Analysis Date: 5/19/2023 SeqNo: 3515482 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val RunNo: 96906 Frep Date: 5/15/2023 Analysis Date: 5/19/2023 SeqNo: 3515482 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val RunNo: 96906 Frep Date: 5/15/2023 Analysis Date: 5/19/2023 SeqNo: 3515482 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val RunNo: 96906 | Sample ID: Ics-74988 | SampType: LCS | TestCode: EPA Method | I 8021B: Volatiles | |
|---|----------------------------|--------------------------|-------------------------------|--------------------|---------------|
| Analyte | Client ID: LCSS | Batch ID: 74988 | RunNo: 96869 | | |
| Benzene | Prep Date: 5/16/2023 | Analysis Date: 5/18/2023 | SeqNo: 3513975 | Units: mg/Kg | |
| Toluene 0.87 0.050 1.000 0 87.2 70 130 Ethylbenzene 0.85 0.050 1.000 0 84.8 70 130 Xylenes, Total 2.5 0.10 3.000 0 83.9 70 130 Surr: 4-Browofluorobenzene 0.86 1.000 86.4 39.1 146 Sample ID: mb-74988 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 74988 RunNo: 96869 Prep Date: 5/16/2023 Analysis Date: 5/18/2023 SeqNo: 3513976 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val REC LowLimit HighLimit RAPD RPDLimit Qual Benzene ND 0.050 Ethylbenzene ND 0.050 Surr: 4-Browofluorobenzene 0.85 1.000 84.9 39.1 146 Sample ID: mb-74964 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 74964 RunNo: 96906 Prep Date: 5/15/2023 Analysis Date: 5/19/2023 SeqNo: 3515482 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val RunNo: 96906 Frep Date: 5/15/2023 Analysis Date: 5/19/2023 SeqNo: 3515482 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val RunNo: 96906 Frep Date: 5/15/2023 Analysis Date: 5/19/2023 SeqNo: 3515482 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val RunNo: 96906 Frep Date: 5/15/2023 Analysis Date: 5/19/2023 SeqNo: 3515482 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val RunNo: 96906 Frep Date: 5/15/2023 Analysis Date: 5/19/2023 SeqNo: 3515482 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val RunNo: 96906 | Analyte | Result PQL SPK va | lue SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Ethylbenzene | Benzene | 0.88 0.025 1.0 | 000 0 87.9 70 | 130 | |
| Xylenes, Total 2.5 0.10 3.000 0 83.9 70 130 146 | Toluene | 0.87 0.050 1.0 | 000 0 87.2 70 | 130 | |
| Surrit 4-Bromofluorobenzene 0.86 1.000 86.4 39.1 146 | Ethylbenzene | 0.85 0.050 1.0 | 000 0 84.8 70 | 130 | |
| Sample ID: mb-74988 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 74988 RunNo: 96869 Prep Date: 5/16/2023 Analysis Date: 5/18/2023 SeqNo: 3513976 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene ND 0.025 ND 0.050 ND 0.050 ND 0.050 ND ND 0.050 ND ND 0.050 ND ND 0.050 ND N | Xylenes, Total | 2.5 0.10 3.0 | 000 0 83.9 70 | 130 | |
| Client ID: PBS Batch ID: 74988 RunNo: 96869 Prep Date: 5/16/2023 Analysis Date: 5/18/2023 SeqNo: 3513976 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene | Surr: 4-Bromofluorobenzene | 0.86 1.0 | 000 86.4 39.1 | 146 | |
| Prep Date: 5/16/2023 Analysis Date: 5/18/2023 SeqNo: 3513976 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene ND 0.025 Image: ND 0.050 Image: ND 0.050 Image: ND Image: ND <td>Sample ID: mb-74988</td> <td>SampType: MBLK</td> <td>TestCode: EPA Method</td> <td>l 8021B: Volatiles</td> <td></td> | Sample ID: mb-74988 | SampType: MBLK | TestCode: EPA Method | l 8021B: Volatiles | |
| 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 0.85 1.000 84.9 39.1 146 Sample ID: mb-74964 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 74964 RunNo: 96906 Prep Date: 5/15/2023 Analysis Date: 5/19/2023 SeqNo: 3515482 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene ND 0.025 Toluene ND 0.025 Toluene ND 0.050 | Client ID: PBS | Batch ID: 74988 | RunNo: 96869 | | |
| ND | Prep Date: 5/16/2023 | Analysis Date: 5/18/2023 | SeqNo: 3513976 | Units: mg/Kg | |
| Toluene | Analyte | Result PQL SPK va | lue SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Ethylbenzene | Benzene | ND 0.025 | | | |
| Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.85 1.000 84.9 39.1 146 Sample ID: mb-74964 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 74964 RunNo: 96906 Prep Date: 5/15/2023 Analysis Date: 5/19/2023 SeqNo: 3515482 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Qual Benzene ND 0.025 ND 0.050 | Toluene | | | | |
| Surr: 4-Bromofluorobenzene 0.85 1.000 84.9 39.1 146 Sample ID: mb-74964 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 74964 RunNo: 96906 Prep Date: 5/15/2023 Analysis Date: 5/19/2023 SeqNo: 3515482 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Qual Benzene ND 0.025 ND 0.050 | Ethylbenzene | | | | |
| Sample ID: mb-74964 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 74964 RunNo: 96906 Prep Date: 5/15/2023 Analysis Date: 5/19/2023 SeqNo: 3515482 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 | Xylenes, Total | ND 0.10 | | | |
| Client ID: PBS Batch ID: 74964 RunNo: 96906 Prep Date: 5/15/2023 Analysis Date: 5/19/2023 SeqNo: 3515482 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene ND 0.025 ND 0.050 ND 0.050 | Surr: 4-Bromofluorobenzene | 0.85 1.0 | 000 84.9 39.1 | 146 | |
| Prep Date: 5/15/2023 Analysis Date: 5/19/2023 SeqNo: 3515482 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 | Sample ID: mb-74964 | SampType: MBLK | TestCode: EPA Method | l 8021B: Volatiles | |
| Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Benzene ND 0.025 Toluene ND 0.050 | Client ID: PBS | Batch ID: 74964 | RunNo: 96906 | | |
| Benzene ND 0.025 Toluene ND 0.050 | Prep Date: 5/15/2023 | Analysis Date: 5/19/2023 | SeqNo: 3515482 | Units: mg/Kg | |
| Toluene ND 0.050 | Analyte | Result PQL SPK va | lue SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| | Benzene | ND 0.025 | | | |
| Ethylbenzene ND 0.050 | Toluene | ND 0.050 | | | |
| | Ethylbenzene | ND 0.050 | | | |

| Sample ID: Ics-74964 | SampT | ype: LC | S | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|------------------|-----------|-------------|------------------|-----------|---------------|------|----------|------|
| Client ID: LCSS | Batcl | n ID: 749 | 964 | F | RunNo: 96 | 906 | | | | |
| Prep Date: 5/15/2023 | Analysis [| Date: 5/2 | 20/2023 | 5 | SeqNo: 35 | 515483 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.88 | 0.025 | 1.000 | 0 | 88.5 | 70 | 130 | | | |
| Toluene | 0.87 | 0.050 | 1.000 | 0 | 87.1 | 70 | 130 | | | |
| Ethylbenzene | 0.85 | 0.050 | 1.000 | 0 | 84.6 | 70 | 130 | | | |
| Xylenes, Total | 2.5 | 0.10 | 3.000 | 0 | 83.6 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.86 | | 1.000 | | 85.7 | 39.1 | 146 | | | |

Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.

ND

0.85

0.10

1.000

B Analyte detected in the associated Method Blank

84.6

39.1

146

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305754**

24-May-23

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: 2305754-002ams Client ID: BH23-44 2' | • | Гуре: МS h ID: 74 9 | | | tCode: EF RunNo: 9 (| | 8021B: Volati | les | | |
|---|------------|--------------------------------------|-----------|-------------|---------------------------------------|----------|---------------|------|----------|------|
| Prep Date: 5/15/2023 | Analysis [| Date: 5/2 | 20/2023 | 5 | SeqNo: 3 | 515486 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.86 | 0.025 | 0.9930 | 0 | 86.5 | 70 | 130 | | | |
| Toluene | 0.85 | 0.050 | 0.9930 | 0 | 85.9 | 70 | 130 | | | |
| Ethylbenzene | 0.83 | 0.050 | 0.9930 | 0 | 83.7 | 70 | 130 | | | |
| Xylenes, Total | 2.5 | 0.099 | 2.979 | 0 | 82.9 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.86 | | 0.9930 | | 86.4 | 39.1 | 146 | | | |

| Sample ID: 2305754-002ams | d Samp | Туре: М | SD | Tes | tCode: EF | PA Method | 8021B: Volat | iles | | · |
|----------------------------|----------|-----------------|-----------|-------------|-----------|-----------|--------------|-------|----------|------|
| Client ID: BH23-44 2' | Bato | h ID: 749 | 964 | F | RunNo: 90 | 6906 | | | | |
| Prep Date: 5/15/2023 | Analysis | Date: 5/ | 20/2023 | | SeqNo: 3 | 515487 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.86 | 0.025 | 0.9881 | 0 | 87.1 | 70 | 130 | 0.154 | 20 | |
| Toluene | 0.85 | 0.049 | 0.9881 | 0 | 85.8 | 70 | 130 | 0.579 | 20 | |
| Ethylbenzene | 0.84 | 0.049 | 0.9881 | 0 | 84.7 | 70 | 130 | 0.689 | 20 | |
| Xylenes, Total | 2.5 | 0.099 | 2.964 | 0 | 84.3 | 70 | 130 | 1.16 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.86 | | 0.9881 | | 87.3 | 39.1 | 146 | 0 | 0 | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305754**

24-May-23

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: Ics-74994 | SampT | ype: LC | S4 | Tes | tCode: EF | PA Method | 8260B: Volati | les Short I | List | |
|-----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|---------------|-------------|----------|------|
| Client ID: BatchQC | Batcl | n ID: 749 | 94 | F | RunNo: 96 | 6860 | | | | |
| Prep Date: 5/16/2023 | Analysis D | Date: 5/ 1 | 18/2023 | 5 | SeqNo: 35 | 513356 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 1.2 | 0.025 | 1.000 | 0 | 117 | 80 | 120 | | | |
| Toluene | 1.0 | 0.050 | 1.000 | 0 | 101 | 80 | 120 | | | |
| Ethylbenzene | 1.0 | 0.050 | 1.000 | 0 | 103 | 80 | 120 | | | |
| Xylenes, Total | 3.1 | 0.10 | 3.000 | 0 | 105 | 80 | 120 | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.59 | | 0.5000 | | 118 | 64.8 | 147 | | | |
| Surr: 4-Bromofluorobenzene | 0.49 | | 0.5000 | | 97.6 | 62.1 | 144 | | | |
| Surr: Dibromofluoromethane | 0.61 | | 0.5000 | | 122 | 73 | 145 | | | |
| Surr: Toluene-d8 | 0.47 | | 0.5000 | | 94.1 | 70 | 130 | | | |

| Sample ID: mb-74994 | Samp ⁻ | Туре: МЕ | BLK | Tes | tCode: El | PA Method | 8260B: Volati | les Short | List | |
|-----------------------------|-------------------|-------------------|-----------|-------------|-----------|-----------|---------------|-----------|----------|------|
| Client ID: PBS | Batc | h ID: 74 9 | 94 | F | RunNo: 9 | 6860 | | | | |
| Prep Date: 5/16/2023 | Analysis I | Date: 5/ | 18/2023 | | SeqNo: 3 | 513357 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 0.59 | | 0.5000 | | 119 | 64.8 | 147 | | | |
| Surr: 4-Bromofluorobenzene | 0.48 | | 0.5000 | | 96.7 | 62.1 | 144 | | | |
| Surr: Dibromofluoromethane | 0.62 | | 0.5000 | | 123 | 73 | 145 | | | |
| Surr: Toluene-d8 | 0.49 | | 0.5000 | | 97.4 | 70 | 130 | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2305754 24-May-23

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: Ics-74994 | SampT | ype: LC | s | Tes | tCode: EF | PA Method | 8015D Mod: (| Gasoline R | lange | |
|-------------------------------|------------|------------------|-----------|-------------|-----------|-----------|--------------|------------|----------|------|
| Client ID: LCSS | Batch | n ID: 749 | 94 | F | RunNo: 96 | 860 | | | | |
| Prep Date: 5/16/2023 | Analysis D |)ate: 5/ | 18/2023 | 5 | SeqNo: 3 | 513388 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24 | 5.0 | 25.00 | 0 | 96.8 | 70 | 130 | | | |
| Surr: BFB | 520 | | 500.0 | | 105 | 70 | 130 | | | |

| Sample ID: mb-74994 | SampT | уре: МЕ | BLK | Tes | tCode: EF | PA Method | 8015D Mod: (| Gasoline R | lange | |
|-------------------------------|------------|-------------------|-----------|-------------|-----------|-----------|--------------|------------|----------|------|
| Client ID: PBS | Batch | n ID: 74 9 | 994 | F | RunNo: 90 | 860 | | | | |
| Prep Date: 5/16/2023 | Analysis D | Date: 5/ | 18/2023 | 5 | SeqNo: 3 | 513389 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 540 | | 500.0 | | 108 | 70 | 130 | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 44 of 44



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

Released to Imaging: 4/23/2025 2:19:30 PM

| | ertex Resources ervices, Inc. | Work | Order Numbe | er: 2305754 | 1 | RcptN | o: 1 |
|-------------------------------------|--|-----------------|---------------|-------------|--------------------|----------------|----------------------|
| Received By: | Juan Rojas | 5/13/20 | 23 7:30:00 A | M | Human | 9 | |
| | Juan Rojas | 5/13/20 | 23 8:34:31 A | M | Heaving Heaving | 9 | |
| | Tmc | 5/13/7 | 23 | | | | |
| Chain of Custo | als e | | | | | | |
| Chain of Custo 1. Is Chain of Cust | | | | Yes | No N | Not Present | |
| 2. How was the sa | | | | Courier | | | |
| Log In | | | | | | | |
| | made to cool the samp | oles? | | Yes 🗹 | No 🗆 | □ NA □ | |
| 4. Were all sample | s received at a tempera | ature of >0° C | to 6.0°C | Yes 🗹 | No 🗆 | □ NA □ | |
| 5. Sample(s) in pro | per container(s)? | | | Yes 🗹 | No [|] | |
| 6. Sufficient sample | e volume for indicated t | est(s)? | | Yes 🗸 | No 🗆 |] | |
| 7. Are samples (exc | cept VOA and ONG) pr | operly preserve | ed? | Yes 🗸 | No 🗆 | | |
| 8. Was preservative | e added to bottles? | | | Yes 🗌 | No 🗹 | NA □ | |
| 9. Received at leas | t 1 vial with headspace | <1/4" for AQ \ | /OA? | Yes 🗌 | No 🗆 | NA ☑ | |
| 10. Were any sampl | e containers received l | oroken? | | Yes | No 💆 | # of preserved | |
| | match bottle labels? sies on chain of custody | Λ | | Yes 🗹 | No 🗆 | | or >12 unless noted) |
| | rectly identified on Cha | | | Yes 🗹 | No 🗆 | Adjusted? | |
| | nalyses were requested | - | | Yes 🗸 | No 🗆 | | 1000 |
| | times able to be met? omer for authorization. | , | | Yes 🗹 | No 🗆 | Checked by: | Just13/23 |
| | g (if applicable) | , | | | | | |
| | ed of all discrepancies | with this order | ? | Yes 🗌 | No 🗆 | NA ✓ | |
| Person No | otified: | | Date | | | _ | |
| By Whom: | | | Via: | eMail | Phone F | ax | |
| Regarding | | | | | | | |
| Client Inst | ructions: | | | | | | |
| 16. Additional rema | irks: | | | | | | |
| Client mis | sign mailing address,pl | none number a | nd email addr | ess on CO | C. JR 5/13/23 | | |
| 17. Cooler Informa | | | | | 1 | | |
| Cooler No | Temp °C Condition | Seal Intact | Seal No | Seal Date | Signed By | | |
| 1 4 | 1.9 Good | No | Morty | | | | |

| ceived Oy 1981 | DIASPIN | ceived @198Ph143Pt@24 St. Betty ARecord | Turn-Around Time: | | | P | | 2 | HALL ENVIRONMEN | Page 299 of 523 |
|------------------|------------------|--|--------------------------------------|---------------------------------------|---|---------------------|-----------------------|-------------|---------------------------|--------------------|
| Client: | Vertex | | | Rush 5 Day | | A | ALY | SIS | LABO | |
| | (direct k | (direct bill to Devon) | ä | , | | W | w.haller | vironm | www.hallenvironmental.com | |
| Mailing Address: | ess: | | Cotton Draw Unit 1-12 CTB | СТВ | 4901 | 4901 Hawkins NE | ı | Ibuquer | Albuquerque, NM 87109 | 7109 |
| | | | Project #: | | Tel. | 505-345-3975 | 3975 | Fax 5 | 505-345-4107 | 70 |
| Phone #: | | | 23E-02423 | | | | Ana | Analysis R | Request | |
| email or Fax#: | 4 : | | Project Manager: | | (0) | | 'OS | | (jue | |
| QA/QC Package: | ge: | | Kent Stallings | | AM | | | | | |
| □ Standard | | ☐ Level 4 (Full Validation) | kstallings@vertex.ca | | O / | | | | //tu: | |
| Accreditation: | | Az Compliance | Sampler: L.Pullman | | \ DE | (1.4 | AO ^s | | | |
| □ NELAC | | | 4 | □ No | OΣ | b 09 | s | | | |
| □ EDD (Type) | e) | | # of Coolers: (| Mary | 19)(| poi | etal | (\ | | |
| | | | Cooler Temp(Including CF): | つからたり | 191 | həl | M 8 | ∤ O/ | | |
| | | | Container Preservative | | EX) H:80 81 P: | M) 8 | 3 AA: | ۸) 09 | 2) 07 S (S | |
| Date Time | e Matrix | Sample Name | Type and # Type | KSES082 | ЧΤ | ΕD | ВС | 82 | \rightarrow | |
| 05/11/23 9:00 | lio Soil | BH2 3 -44 0' | 1, 4oz jar | -00' | × | | × | | | |
| 05/11/23 9:05 | Soil | BH23-44 2' | 1, 4oz jar | -002 | × | | × | | | |
| 05/11/23 9:10 | 0 Soil | BH23-44 3.5' | 1, 4oz jar | 7003 | × | | × | | | |
| 05/11/23 9:20 | io Soil | BH23-45 0' | 1, 4oz jar | 7007 | × | | × | | | |
| 05/11/23 9:25 | Soil | BH23-45 2' | 1, 4oz jar | 7005 | × | | × | | | |
| 05/11/23 9:30 | so Soil | BH23-45 3.5' | 1, 4oz jar | 300 | × | | × | | | |
| 05/11/23 9:35 | Soil | BH23-46 0' | 1, 4oz jar | 100 | × | | × | | - | |
| 05/11/23 9:40 | o Soil | BH23-46 2' | 1, 4oz jar | 1000 0000 | × | | × | | | |
| 05/11/23 9:45 | Soil | BH23-46 3.5' | 1, 4oz jar | 000 | × | | × | | | |
| 05/11/23 10:05 | 05 Soil | BH22-47 0' | 1, 4oz jar | 010 | × | | × | | | |
| 05/11/23 10:10 | | BH2 3- 47 2' | 1, 4oz jar | 170- | × | | × | | | |
| 05/11/23 10:15 | 15 Soil | BH23-47 4' | 1, 4oz jar | 210- | × | | × | | | |
| | Relinquished by: | hed by: | Received by: Via: | | Remarks: | | 200 | laboo'N | _ | |
| SE SE | 0 | MAUMAN | While | 23 | Direct bill to Devon, Dale Woodall cc. kstallings@vertex.ca for Final Report | to Devor nas@ver | i, Dale i tex.ca f | or Fina | I I Report | |
| | Relinquished by | thed by: | Received by: | Date | |) | | | • | 1/3 |
| 114.23 190 | Cill | | J JOEN'S | 2 5 12 23 7150 | | | | | |) |
| If neces | sary, samples s | 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 | ontracted to other accredited labora | tories. This serves as notice of this | possibility. Any | sub-contract | ed data will | be clearly | notated on the | analytical report. |

| Received @ 198711169 2024 1978 1934 Mecord | PLACE LINE | dy Record | Turn-Around Time: | rime: | | | | | 1 | = | 2 | 5 | ANO | Page 300 of 523 |
|--|------------------------|---|----------------------------|---------------------------|--|--------|---------|-----------------|-----------------|-----------------|--|--------------------|---|------------------|
| Client: Ve | Vertex | | ĭ Standard | A Rush | 5 Day | | | | A | A | ANALYSIS | S | ABO | ABORATORY |
| | (direct bill to Devon) | evon) | Project Name: | | | I. | | | *** | w.hall | enviro | nmen | www.hallenvironmental.com | |
| Mailing Address: | | | Cotton Draw | Cotton Draw Unit 1-12 CTB | 8 | | 490. | l Hav | 4901 Hawkins NE | 삦 | Albuc | nerd | Albuquerque, NM 87109 | 109 |
| | | | Project #: | | | | e He | 505 | 505-345-3975 | 975 | Fax | 505 | 505-345-4107 | 7 |
| Phone #: | | | 23E-02423 | | | | | | | Ā | Analysis Request | s Rec | nest | |
| email or Fax#: | | | Project Manager: | jer: | | (1 | | | | | [‡] OS | | (jue | |
| QA/QC Package: | | | Kent Stallings | | | Z08) | | s.gc | SMI | | S '*C | | ypse/ | |
| □ Standard | □ Le | ☐ Level 4 (Full Validation) | kstallings@vertex.ca | rtex.ca | |) s,ɛ | |)d 7 | S02 | |)d ' | | //ju | |
| | ☐ Az Compliance | | Sampler: | an | | 3MT | | | | | ZON | (| | |
| - 1 | □ Other | | On Ice: | Yes | oN □ | / = | | | | | 'ε | AO | | |
| ☐ EDD (Type) | | | # of Coolers: | | Mats. | 18E | | | | | | | | |
| | | | Cooler Temp(including CF): | ncluding CF); | らかった | M | | | | | | | | |
| Date Time | Matrix Sar | Sample Name | Container Type and # | Preservative Type | HEAL No. | STEX! | 08:Hq1 | 9 1808 | M) BDE | AADS | 3; F, E | /) 0928 2) 0728 | O IstoT | |
| 10.20 | 1 | BH22-48 0' | | | 707 | × | - | \vdash | + | + | \bot | _ | | |
| 10:25 | Soil | BH2 3 -48 2' | 1, 4oz iar | | 1017 | × | × | | | | × | | | |
| 10:30 | Soil | BH2 3 -48 4' | 1, 4oz jar | | -0/5- | × | × | | | | × | | | |
| 10:55 | Soil | BH2 3 -49 0' | 1, 4oz jar | | 910_ | × | × | | | | × | | | |
| 11:00 | Soil | BH23-49 2' | 1, 4oz jar | | 210- | × | × | | | | × | | | |
| 11:05 | Soil | BH23-49 4' | 1, 4oz jar | | 310- | × | × | | | | × | | | |
| 05/11/23 11:15 | Soil | BH23-50 0' | 1, 4oz jar | | 619 | × | × | | | | × | | | |
| 05/11/23 11:20 | Soil | ВН23-50 2 | 1, 4oz jar | | -620 | × | × | | | | × | | | |
| 05/11/23 11:25 | Soil | ВН23-50 4' | 1, 4oz jar | | -021 | × | × | | | | × | | | |
| 05/11/23 11:35 | Soil | BH22-51 0' | 1, 4oz jar | | -022 | × | × | | | | × | | | |
| 05/11/23 11:40 | Soil | BH23-51 2' | 1, 4oz jar | | 520- | × | × | | | | × | | | |
| - rō | Soil | BH23-51 4' | 1, 4oz jar | | から | × | × | | | | × | | | |
| rime: | Relinquished by: / | ج | Received by: | Via: | Date Time | Rem | Remarks | | | | | | | |
| 90°TO 800 | Satura | Mar | aluce | 9-20 | ~ | C. A. | ct bil | l to [ings(| evon Øvert | , Dale ex.ca | Direct bill to Devon, Dale Woodall cc. kstallings@vertex.ca for Final | dall inal F | Direct bill to Devon, Dale Woodall cc. kstallings@vertex.ca for Final Report | |
| | linquished by: | | Received by: | Via: | Date Time | | | |) | | | | | 7/0 |
| 1)3/35 19w | GAMMAN | | 1 | X Cambo | X18 56/21/2 | 0 | | | | | | | | 5/2 |
| nes viessesen il | or her submitted to | f necessary samples submitted to Hall Environmental may be subcontracted to other | contracted to other | credited laboratories | . This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. | nossib | II.tv | J. C. I.B. | 400400 | ا ماماده | Jo od III. | on March | re adt on hete | notivinal ranget |

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.

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ANALYSIS LABORATORY HALL ENVIRONMENTAL

5 Daw

₩ Rush

Standard Project Name:

(direct bill to Devon)

Mailing Address:

Turn-Around Time:

Vertex

Cotton Draw Unit 1-12 CTB

Project #:

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

| Phone # | # | | | 7000 | | | | | | | | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | | |
|----------------|----------------|-----------------|--|----------------------------|--|-------------|-------------------------|--|-------|----------|-----------------|---------------------------------------|-----------|-----------|---------------|---------|
| | | | | 23E-02423 | | | | | | | Ana | Analysis Kequest | Kedı | iest | | |
| email | email or Fax#: | | | Project Manager: | ager: | | (| (0 | | | PC | L | | (1) | | H |
| QA/QC | QA/QC Package: | á | | Kent Stallings | ່ ຜ | | 120 | | | SI | S | | | uəsc | | |
| □ Sta | □ Standard | | ☐ Level 4 (Full Validation) | kstallings@vertex.ca | ertex.ca | | 8) s | | | VIS | <u>-</u> ОА | | | dΑ\ĵ | | |
| Accre | Accreditation: | □ Az C | ☐ Az Compliance | Sampler: | L.Pullman | | BW. | | | 3270 | | | | uəs | | |
| □ NELAC | LAC | □ Other | | On Ice: | BYes | oN □ | L / | | | | | | (A | Pre —— | | |
| | □ EDD (Type) | | | # of Coolers: | 1 | West 1 | 38 | | | | | | ОΛ |) w | | |
| | | | | Cooler Temp(including cF): | (including CF): | 1-9-0-4.9 | тM | | | | _ | | -ime | lifor | | |
| Date | E E E | Matrix | Samula NameS | Container Type and # | Preservative Type | HEAL No. | [EX3] | 108:Hc ——— 99 180 | M) ac | (d eH≙ | SRA 8 ; F, B | ο Λ) 09 | 95) 02 | oS lste | | |
| 05/11/23 | | | | 10110 | odf | 730575 | <u>B</u> : | + | | | | | 28 | Л | $\frac{1}{1}$ | |
| 05/11/23 | 1 | <u> </u> | BH2 3 -52 2' | 1 402 jar | | 100 | < > | \ ; | | - | × ; | | \dagger | - | | 1 |
| 05/11/23 | | _ | BH23-52 4' | 1, 402 jar | | 000 | < > | < > | | + | × > | I | 1 | | 1 | |
| 05/11/23 | | <u> </u> | BH23-53 0' | 1. 4oz iar | | × 3000 | < × | < × | | + | < <i>></i> | | | - | | <u></u> |
| 05/11/23 | 3 12:25 | | BH2 2 -53 2' | 1, 4oz jar | | 2000 | +- | (× | | +- | < × | | | - | | |
| 05/11/23 | 3 12:30 | Soil | BH2 3 -53 4' | 1, 4oz jar | | 620 | - | × | | +- | × | | | - | - | - |
| 05/11/23 | 3 12:40 | Soil | BH2 2 -54 0' | 1, 4oz jar | | -031 | - | × | | - | × | | | - | | |
| 05/11/23 | 3 12:45 | Soil | BH23-54 2' | 1, 4oz jar | | -032 | ├ | × | | | × | | \vdash | | | |
| 05/11/23 | 3 12:50 | Soil | BH22-54 4' | 1, 4oz jar | | -033 | - | × | | \vdash | × | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | \perp | | | - | 1 | | \dashv | - | | |
| Date | Time | Relinanished by | | Devision by: | /(2: | | | 4 | | \dashv | _ | | \dashv | | | |
| S-D-1012 OT:00 | 00:10 | 200 | NOW! | 7 | <u>. </u> | 5/19/18 700 | Remarks: Direct bill | Remarks: Direct bill to Devon, Dale Woodall | Deve | on, D | ale W | ooda | = | | | |
| Date: | Time: | Relinquished by | ., | Received by: | Via: | Date Time | SC. Ks | cc. kstallings@vertex.ca for Final Report | s@ve | rtex. | ca fo | Fina | I Reg | ort | | |
| 86/6/12 | 1900 | alm | Maurina | J | -rochrier | S1263 7/30 | | | | | | | | | 333 | |
| | If necessary | dia selumes . | f nesseapy samples submitted the Holl of helimites adams yesseapen | | 1 | | | | | | | ١ | | | | |

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

May 31, 2023

Kent Stallings Vertex Resources Services, Inc. 3101 Boyd Drive Carlsbad, NM 88220 TEL: (505) 506-0040

FAX:

RE: Cotton Draw Unit 1 12 CTB OrderNo.: 2305809

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 24 sample(s) on 5/16/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-55 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 9:05:00 AM

 Lab ID:
 2305809-001
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

Result **RL Qual Units** DF **Date Analyzed** Analyses Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) 12 9.1 mg/Kg 1 5/20/2023 4:00:24 AM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 5/20/2023 4:00:24 AM Surr: DNOP 88.7 69-147 %Rec 1 5/20/2023 4:00:24 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/20/2023 4:12:20 AM 4.8 mg/Kg 1 Surr: BFB 76.6 15-244 %Rec 1 5/20/2023 4:12:20 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/20/2023 4:12:20 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 5/20/2023 4:12:20 AM Ethylbenzene ND 0.048 mg/Kg 1 5/20/2023 4:12:20 AM Xylenes, Total ND 0.096 mg/Kg 1 5/20/2023 4:12:20 AM Surr: 4-Bromofluorobenzene 101 39.1-146 %Rec 1 5/20/2023 4:12:20 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 5/19/2023 11:30:51 PM ND 60 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 31

Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-55 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 9:10:00 AM

 Lab ID:
 2305809-002
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 5/20/2023 4:11:11 AM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 5/20/2023 4:11:11 AM |
| Surr: DNOP | 103 | 69-147 | %Rec | 1 | 5/20/2023 4:11:11 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/20/2023 4:35:36 AM |
| Surr: BFB | 77.1 | 15-244 | %Rec | 1 | 5/20/2023 4:35:36 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.023 | mg/Kg | 1 | 5/20/2023 4:35:36 AM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/20/2023 4:35:36 AM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/20/2023 4:35:36 AM |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 5/20/2023 4:35:36 AM |
| Surr: 4-Bromofluorobenzene | 102 | 39.1-146 | %Rec | 1 | 5/20/2023 4:35:36 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 5/19/2023 11:43:16 PM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 31

Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-55 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 9:15:00 AM

 Lab ID:
 2305809-003
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

Result **RL Qual Units** DF **Date Analyzed** Analyses Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.4 mg/Kg 1 5/20/2023 4:22:08 AM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 5/20/2023 4:22:08 AM Surr: DNOP 86.6 69-147 %Rec 1 5/20/2023 4:22:08 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/20/2023 4:58:59 AM 4.8 mg/Kg 1 Surr: BFB 73.9 15-244 %Rec 1 5/20/2023 4:58:59 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/20/2023 4:58:59 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 5/20/2023 4:58:59 AM Ethylbenzene ND 0.048 mg/Kg 1 5/20/2023 4:58:59 AM Xylenes, Total ND 0.097 mg/Kg 1 5/20/2023 4:58:59 AM Surr: 4-Bromofluorobenzene 100 39.1-146 %Rec 1 5/20/2023 4:58:59 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 5/19/2023 11:55:41 PM ND 60 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 31

Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-56 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 9:30:00 AM

 Lab ID:
 2305809-004
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

| Analyses | Result | RL Qual | Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | 400 | 9.6 | mg/Kg | 1 | 5/20/2023 4:33:05 AM |
| Motor Oil Range Organics (MRO) | 250 | 48 | mg/Kg | 1 | 5/20/2023 4:33:05 AM |
| Surr: DNOP | 86.2 | 69-147 | %Rec | 1 | 5/20/2023 4:33:05 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 5/20/2023 5:22:25 AM |
| Surr: BFB | 64.0 | 15-244 | %Rec | 1 | 5/20/2023 5:22:25 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 5:22:25 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 5/20/2023 5:22:25 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 5/20/2023 5:22:25 AM |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 5/20/2023 5:22:25 AM |
| Surr: 4-Bromofluorobenzene | 97.0 | 39.1-146 | %Rec | 1 | 5/20/2023 5:22:25 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 5/20/2023 12:08:06 AM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-56 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 9:35:00 AM

 Lab ID:
 2305809-005
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.3 | mg/Kg | 1 | 5/20/2023 4:44:00 AM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 5/20/2023 4:44:00 AM |
| Surr: DNOP | 90.0 | 69-147 | %Rec | 1 | 5/20/2023 4:44:00 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/20/2023 5:45:52 AM |
| Surr: BFB | 68.8 | 15-244 | %Rec | 1 | 5/20/2023 5:45:52 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/20/2023 5:45:52 AM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/20/2023 5:45:52 AM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/20/2023 5:45:52 AM |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 5/20/2023 5:45:52 AM |
| Surr: 4-Bromofluorobenzene | 99.3 | 39.1-146 | %Rec | 1 | 5/20/2023 5:45:52 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 5/20/2023 12:45:20 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-56 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 9:40:00 AM

 Lab ID:
 2305809-006
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|----------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 5/20/2023 5:05:28 AM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 5/20/2023 5:05:28 AM |
| Surr: DNOP | 89.1 | 69-147 | %Rec | 1 | 5/20/2023 5:05:28 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/20/2023 6:32:47 AM |
| Surr: BFB | 72.1 | 15-244 | %Rec | 1 | 5/20/2023 6:32:47 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 6:32:47 AM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/20/2023 6:32:47 AM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/20/2023 6:32:47 AM |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 5/20/2023 6:32:47 AM |
| Surr: 4-Bromofluorobenzene | 100 | 39.1-146 | %Rec | 1 | 5/20/2023 6:32:47 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 5/20/2023 12:57:44 AM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-57 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 10:10:00 AM

 Lab ID:
 2305809-007
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | 260 | 8.7 | mg/Kg | 1 | 5/20/2023 5:16:21 AM |
| Motor Oil Range Organics (MRO) | 190 | 43 | mg/Kg | 1 | 5/20/2023 5:16:21 AM |
| Surr: DNOP | 76.7 | 69-147 | %Rec | 1 | 5/20/2023 5:16:21 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/20/2023 6:56:13 AM |
| Surr: BFB | 57.9 | 15-244 | %Rec | 1 | 5/20/2023 6:56:13 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/20/2023 6:56:13 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 6:56:13 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 6:56:13 AM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/20/2023 6:56:13 AM |
| Surr: 4-Bromofluorobenzene | 96.7 | 39.1-146 | %Rec | 1 | 5/20/2023 6:56:13 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 5/20/2023 1:10:09 AM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-57 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 10:15:00 AM

 Lab ID:
 2305809-008
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 5/20/2023 5:27:13 AM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 5/20/2023 5:27:13 AM |
| Surr: DNOP | 93.8 | 69-147 | %Rec | 1 | 5/20/2023 5:27:13 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/20/2023 7:19:40 AM |
| Surr: BFB | 80.6 | 15-244 | %Rec | 1 | 5/20/2023 7:19:40 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 7:19:40 AM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/20/2023 7:19:40 AM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/20/2023 7:19:40 AM |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 5/20/2023 7:19:40 AM |
| Surr: 4-Bromofluorobenzene | 102 | 39.1-146 | %Rec | 1 | 5/20/2023 7:19:40 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 5/20/2023 1:22:33 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-57 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 10:20:00 AM

 Lab ID:
 2305809-009
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 5/20/2023 5:38:04 AM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 5/20/2023 5:38:04 AM |
| Surr: DNOP | 98.0 | 69-147 | %Rec | 1 | 5/20/2023 5:38:04 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/20/2023 7:43:08 AM |
| Surr: BFB | 78.4 | 15-244 | %Rec | 1 | 5/20/2023 7:43:08 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 7:43:08 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 7:43:08 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 7:43:08 AM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 5/20/2023 7:43:08 AM |
| Surr: 4-Bromofluorobenzene | 101 | 39.1-146 | %Rec | 1 | 5/20/2023 7:43:08 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 5/20/2023 1:34:58 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-58 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 10:25:00 AM

 Lab ID:
 2305809-010
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OF | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | 84 | 8.6 | mg/Kg | 1 | 5/20/2023 5:48:53 AM |
| Motor Oil Range Organics (MRO) | 88 | 43 | mg/Kg | 1 | 5/20/2023 5:48:53 AM |
| Surr: DNOP | 125 | 69-147 | %Rec | 1 | 5/20/2023 5:48:53 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/20/2023 8:06:34 AM |
| Surr: BFB | 70.6 | 15-244 | %Rec | 1 | 5/20/2023 8:06:34 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 8:06:34 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 8:06:34 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 8:06:34 AM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/20/2023 8:06:34 AM |
| Surr: 4-Bromofluorobenzene | 98.6 | 39.1-146 | %Rec | 1 | 5/20/2023 8:06:34 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | 160 | 60 | mg/Kg | 20 | 5/20/2023 1:47:23 AM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-58 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 10:30:00 AM

 Lab ID:
 2305809-011
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

| Analyses | Result | RI. Ou | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|------------|----------------------|
| · | | TAL Qu | | <i>D</i> 1 | |
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.4 | mg/Kg | 1 | 5/20/2023 5:59:41 AM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 5/20/2023 5:59:41 AM |
| Surr: DNOP | 101 | 69-147 | %Rec | 1 | 5/20/2023 5:59:41 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/20/2023 8:29:53 AM |
| Surr: BFB | 60.2 | 15-244 | %Rec | 1 | 5/20/2023 8:29:53 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 8:29:53 AM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/20/2023 8:29:53 AM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/20/2023 8:29:53 AM |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 5/20/2023 8:29:53 AM |
| Surr: 4-Bromofluorobenzene | 95.6 | 39.1-146 | %Rec | 1 | 5/20/2023 8:29:53 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: CAS |
| Chloride | 300 | 60 | mg/Kg | 20 | 5/20/2023 9:22:46 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-58 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 10:35:00 AM

 Lab ID:
 2305809-012
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 8.9 | mg/Kg | 1 | 5/20/2023 6:10:29 AM |
| Motor Oil Range Organics (MRO) | ND | 45 | mg/Kg | 1 | 5/20/2023 6:10:29 AM |
| Surr: DNOP | 97.7 | 69-147 | %Rec | 1 | 5/20/2023 6:10:29 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/20/2023 8:53:12 AM |
| Surr: BFB | 78.3 | 15-244 | %Rec | 1 | 5/20/2023 8:53:12 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/20/2023 8:53:12 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 8:53:12 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 8:53:12 AM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/20/2023 8:53:12 AM |
| Surr: 4-Bromofluorobenzene | 101 | 39.1-146 | %Rec | 1 | 5/20/2023 8:53:12 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: CAS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/20/2023 9:59:59 AM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-59 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 11:00:00 AM

 Lab ID:
 2305809-013
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|---------------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 8.6 | mg/Kg | 1 | 5/22/2023 10:21:33 AM |
| Motor Oil Range Organics (MRO) | ND | 43 | mg/Kg | 1 | 5/22/2023 10:21:33 AM |
| Surr: DNOP | 83.5 | 69-147 | %Rec | 1 | 5/22/2023 10:21:33 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/20/2023 9:16:33 AM |
| Surr: BFB | 88.9 | 15-244 | %Rec | 1 | 5/20/2023 9:16:33 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 9:16:33 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 9:16:33 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 9:16:33 AM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 5/20/2023 9:16:33 AM |
| Surr: 4-Bromofluorobenzene | 104 | 39.1-146 | %Rec | 1 | 5/20/2023 9:16:33 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: CAS |
| Chloride | ND | 61 | mg/Kg | 20 | 5/20/2023 11:02:03 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-59 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 11:05:00 AM

 Lab ID:
 2305809-014
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|---------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 5/20/2023 6:32:00 AM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 5/20/2023 6:32:00 AM |
| Surr: DNOP | 99.0 | 69-147 | %Rec | 1 | 5/20/2023 6:32:00 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 5/20/2023 9:39:57 AM |
| Surr: BFB | 92.0 | 15-244 | %Rec | 1 | 5/20/2023 9:39:57 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/20/2023 9:39:57 AM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 5/20/2023 9:39:57 AM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 5/20/2023 9:39:57 AM |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 5/20/2023 9:39:57 AM |
| Surr: 4-Bromofluorobenzene | 104 | 39.1-146 | %Rec | 1 | 5/20/2023 9:39:57 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: CAS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/20/2023 11:14:28 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-59 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 11:10:00 AM

 Lab ID:
 2305809-015
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: PRD | | | | |
| Diesel Range Organics (DRO) | ND | 9.7 | mg/Kg | 1 | 5/20/2023 6:42:44 AM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 5/20/2023 6:42:44 AM |
| Surr: DNOP | 80.0 | 69-147 | %Rec | 1 | 5/20/2023 6:42:44 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/20/2023 10:03:23 AM |
| Surr: BFB | 70.5 | 15-244 | %Rec | 1 | 5/20/2023 10:03:23 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 5/20/2023 10:03:23 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 10:03:23 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 10:03:23 AM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 5/20/2023 10:03:23 AM |
| Surr: 4-Bromofluorobenzene | 99.1 | 39.1-146 | %Rec | 1 | 5/20/2023 10:03:23 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: CAS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/20/2023 11:26:52 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-60 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 12:15:00 PM

 Lab ID:
 2305809-016
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|---|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | 270 | 9.1 | mg/Kg | 1 | 5/23/2023 11:04:15 AM |
| Motor Oil Range Organics (MRO) | 320 | 46 | mg/Kg | 1 | 5/23/2023 11:04:15 AM |
| Surr: DNOP | 103 | 69-147 | %Rec | 1 | 5/23/2023 11:04:15 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/20/2023 12:24:00 PM |
| Surr: BFB | 71.4 | 15-244 | %Rec | 1 | 5/20/2023 12:24:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.023 | mg/Kg | 1 | 5/20/2023 12:24:00 PM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/20/2023 12:24:00 PM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/20/2023 12:24:00 PM |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 5/20/2023 12:24:00 PM |
| Surr: 4-Bromofluorobenzene | 98.9 | 39.1-146 | %Rec | 1 | 5/20/2023 12:24:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: CAS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/20/2023 11:39:17 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-60 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 12:20:00 PM

 Lab ID:
 2305809-017
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|---------------------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | | Analyst: DGH | | | |
| Diesel Range Organics (DRO) | ND | 8.6 | mg/Kg | 1 | 5/18/2023 4:37:34 PM |
| Motor Oil Range Organics (MRO) | ND | 43 | mg/Kg | 1 | 5/18/2023 4:37:34 PM |
| Surr: DNOP | 82.2 | 69-147 | %Rec | 1 | 5/18/2023 4:37:34 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.6 | mg/Kg | 1 | 5/20/2023 1:34:05 PM |
| Surr: BFB | 80.3 | 15-244 | %Rec | 1 | 5/20/2023 1:34:05 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.023 | mg/Kg | 1 | 5/20/2023 1:34:05 PM |
| Toluene | ND | 0.046 | mg/Kg | 1 | 5/20/2023 1:34:05 PM |
| Ethylbenzene | ND | 0.046 | mg/Kg | 1 | 5/20/2023 1:34:05 PM |
| Xylenes, Total | ND | 0.093 | mg/Kg | 1 | 5/20/2023 1:34:05 PM |
| Surr: 4-Bromofluorobenzene | 101 | 39.1-146 | %Rec | 1 | 5/20/2023 1:34:05 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: CAS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/20/2023 11:51:41 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-60 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 12:25:00 PM

 Lab ID:
 2305809-018
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|---------------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 9.3 | mg/Kg | 1 | 5/18/2023 5:01:19 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 5/18/2023 5:01:19 PM |
| Surr: DNOP | 84.4 | 69-147 | %Rec | 1 | 5/18/2023 5:01:19 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/20/2023 2:44:10 PM |
| Surr: BFB | 80.9 | 15-244 | %Rec | 1 | 5/20/2023 2:44:10 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/20/2023 2:44:10 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 2:44:10 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 2:44:10 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/20/2023 2:44:10 PM |
| Surr: 4-Bromofluorobenzene | 100 | 39.1-146 | %Rec | 1 | 5/20/2023 2:44:10 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: CAS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/20/2023 12:04:06 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-61 0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 2:05:00 PM

 Lab ID:
 2305809-019
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|---|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGANICS | | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 5/23/2023 10:43:11 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 5/23/2023 10:43:11 AM |
| Surr: DNOP | 107 | 69-147 | %Rec | 1 | 5/23/2023 10:43:11 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/20/2023 3:07:29 PM |
| Surr: BFB | 74.5 | 15-244 | %Rec | 1 | 5/20/2023 3:07:29 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/20/2023 3:07:29 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 3:07:29 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 3:07:29 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 5/20/2023 3:07:29 PM |
| Surr: 4-Bromofluorobenzene | 99.9 | 39.1-146 | %Rec | 1 | 5/20/2023 3:07:29 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: CAS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/20/2023 12:16:30 PM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-61 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 2:10:00 PM

 Lab ID:
 2305809-020
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|---------------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 5/18/2023 5:48:45 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 5/18/2023 5:48:45 PM |
| Surr: DNOP | 93.5 | 69-147 | %Rec | 1 | 5/18/2023 5:48:45 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 5/20/2023 3:30:51 PM |
| Surr: BFB | 71.0 | 15-244 | %Rec | 1 | 5/20/2023 3:30:51 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.023 | mg/Kg | 1 | 5/20/2023 3:30:51 PM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 5/20/2023 3:30:51 PM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 5/20/2023 3:30:51 PM |
| Xylenes, Total | ND | 0.093 | mg/Kg | 1 | 5/20/2023 3:30:51 PM |
| Surr: 4-Bromofluorobenzene | 97.9 | 39.1-146 | %Rec | 1 | 5/20/2023 3:30:51 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: CAS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/20/2023 12:28:55 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-61 3.5

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 2:15:00 PM

 Lab ID:
 2305809-021
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

Result **RL Qual Units** DF **Date Analyzed** Analyses Analyst: **DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 5/18/2023 6:12:30 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 5/18/2023 6:12:30 PM Surr: DNOP 84.9 69-147 %Rec 1 5/18/2023 6:12:30 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/20/2023 3:54:08 PM 4.9 mg/Kg 1 Surr: BFB 64.6 15-244 %Rec 1 5/20/2023 3:54:08 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/20/2023 3:54:08 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 5/20/2023 3:54:08 PM Ethylbenzene ND 0.049 mg/Kg 1 5/20/2023 3:54:08 PM Xylenes, Total ND 0.098 mg/Kg 1 5/20/2023 3:54:08 PM Surr: 4-Bromofluorobenzene 96.9 39.1-146 %Rec 1 5/20/2023 3:54:08 PM **EPA METHOD 300.0: ANIONS** Analyst: CAS mg/Kg Chloride 5/20/2023 12:41:19 PM 430 60 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH23-62 0^o

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 2:25:00 PM

 Lab ID:
 2305809-022
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

Result **RL Qual Units** DF **Date Analyzed** Analyses Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) 41 9.9 mg/Kg 1 5/23/2023 10:53:43 AM Motor Oil Range Organics (MRO) 82 49 mg/Kg 1 5/23/2023 10:53:43 AM Surr: DNOP 98.8 69-147 %Rec 1 5/23/2023 10:53:43 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/20/2023 4:17:31 PM 4.8 mg/Kg 1 Surr: BFB 77.2 15-244 %Rec 1 5/20/2023 4:17:31 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/20/2023 4:17:31 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 5/20/2023 4:17:31 PM Ethylbenzene ND 0.048 mg/Kg 1 5/20/2023 4:17:31 PM Xylenes, Total ND 0.095 mg/Kg 1 5/20/2023 4:17:31 PM Surr: 4-Bromofluorobenzene 100 39.1-146 %Rec 1 5/20/2023 4:17:31 PM **EPA METHOD 300.0: ANIONS** Analyst: CAS mg/Kg Chloride 5/20/2023 12:53:43 PM ND 60 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Analytical ReportLab Order **2305809**

Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-62 2'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 2:30:00 PM

 Lab ID:
 2305809-023
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 9.2 mg/Kg 1 5/18/2023 6:59:55 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 5/18/2023 6:59:55 PM Surr: DNOP 87.0 69-147 %Rec 1 5/18/2023 6:59:55 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 5/20/2023 4:40:52 PM 4.8 mg/Kg 1 Surr: BFB 73.7 15-244 %Rec 1 5/20/2023 4:40:52 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 5/20/2023 4:40:52 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 5/20/2023 4:40:52 PM Ethylbenzene ND 0.048 mg/Kg 1 5/20/2023 4:40:52 PM Xylenes, Total ND 0.095 mg/Kg 1 5/20/2023 4:40:52 PM Surr: 4-Bromofluorobenzene 99.1 39.1-146 %Rec 1 5/20/2023 4:40:52 PM **EPA METHOD 300.0: ANIONS** Analyst: CAS mg/Kg Chloride 5/20/2023 1:30:57 PM ND 59 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Analytical Report Lab Order 2305809

Date Reported: 5/31/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-62 4'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 5/12/2023 2:35:00 PM

 Lab ID:
 2305809-024
 Matrix: SOIL
 Received Date: 5/16/2023 4:10:00 PM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 5/18/2023 7:23:40 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 5/18/2023 7:23:40 PM |
| Surr: DNOP | 86.9 | 69-147 | %Rec | 1 | 5/18/2023 7:23:40 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 5/20/2023 5:04:10 PM |
| Surr: BFB | 80.2 | 15-244 | %Rec | 1 | 5/20/2023 5:04:10 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 5/20/2023 5:04:10 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 5:04:10 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 5/20/2023 5:04:10 PM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 5/20/2023 5:04:10 PM |
| Surr: 4-Bromofluorobenzene | 101 | 39.1-146 | %Rec | 1 | 5/20/2023 5:04:10 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: CAS |
| Chloride | ND | 60 | mg/Kg | 20 | 5/20/2023 1:43:21 PM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2305809

31-May-23

Client: Vertex Resources Services, Inc. **Project:** Cotton Draw Unit 1 12 CTB

Sample ID: MB-75068 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 75068 RunNo: 96891

Prep Date: 5/19/2023 Analysis Date: 5/19/2023 SeqNo: 3514873 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-75068 SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 75068 RunNo: 96891 Prep Date: 5/19/2023 Analysis Date: 5/19/2023 SeqNo: 3514874 Units: mg/Kg %RPD **RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit Qual

Chloride 14 1.5 15.00 95.5 110

Sample ID: MB-75075 TestCode: EPA Method 300.0: Anions SampType: mblk

Client ID: **PBS** Batch ID: 75075 RunNo: 96914

Units: mg/Kg Prep Date: Analysis Date: 5/20/2023 SeqNo: 3515810 5/20/2023

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

Chloride ND

Sample ID: LCS-75075 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 75075 RunNo: 96914

Prep Date: Analysis Date: 5/20/2023 SeqNo: 3515811 5/20/2023 Units: mg/Kg

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

Chloride 14 1.5 15.00 n 91.7 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305809** *31-May-23*

| Client: | Vertex Resources Services, Inc. |
|----------|---------------------------------|
| Project: | Cotton Draw Unit 1 12 CTB |

| Sample ID: MB-75016 | | | |
|---|---|---|---------------------------------------|
| | SampType: MBLK | TestCode: EPA Method 8015M/D: Diese | el Range Organics |
| Client ID: PBS | Batch ID: 75016 | RunNo: 96866 | |
| Prep Date: 5/17/2023 | Analysis Date: 5/18/2023 | SeqNo: 3513753 Units: mg/Kg | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit HighLimit | %RPD RPDLimit Qual |
| Diesel Range Organics (DRO) | ND 10 | | |
| Motor Oil Range Organics (MRO) Surr: DNOP | ND 50 9.7 10.00 | 96.9 69 147 | |
| Suil. DNOP | 9.7 10.00 | 90.9 09 147 | |
| Sample ID: LCS-75016 | SampType: LCS | TestCode: EPA Method 8015M/D: Diese | el Range Organics |
| Client ID: LCSS | Batch ID: 75016 | RunNo: 96866 | |
| Prep Date: 5/17/2023 | Analysis Date: 5/18/2023 | SeqNo: 3513754 Units: mg/Kg | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit HighLimit | %RPD RPDLimit Qual |
| Diesel Range Organics (DRO) | 46 10 50.00 | 0 91.5 61.9 130 | |
| Surr: DNOP | 4.3 5.000 | 85.9 69 147 | |
| Sample ID: LCS-75018 | SampType: LCS | TestCode: EPA Method 8015M/D: Diese | el Range Organics |
| Client ID: LCSS | Batch ID: 75018 | RunNo: 96907 | |
| Prep Date: 5/17/2023 | Analysis Date: 5/19/2023 | SeqNo: 3515397 Units: %Rec | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit HighLimit | %RPD RPDLimit Qual |
| Surr: DNOP | 8.2 5.000 | 163 69 147 | S |
| Sample ID: LCS-75033 | SampType: LCS | TestCode: EPA Method 8015M/D: Diese | el Range Organics |
| Client ID: LCSS | Batch ID: 75033 | RunNo: 96907 | |
| Prep Date: 5/18/2023 | Analysis Date: 5/19/2023 | SeqNo: 3515399 Units: mg/Kg | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit HighLimit | %RPD RPDLimit Qual |
| Diesel Range Organics (DRO) | 52 10 50.00 | 0 103 61.9 130 | |
| Surr: DNOP | 5.2 5.000 | 103 69 147 | |
| Sample ID: MB-75018 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diese | el Range Organics |
| Client ID: PBS | Batch ID: 75018 | RunNo: 96907 | |
| Prep Date: 5/17/2023 | Analysis Date: 5/19/2023 | SeqNo: 3515401 Units: %Rec | |
| | Result PQL SPK value | SPK Ref Val %REC LowLimit HighLimit | %RPD RPDLimit Qual |
| Analyte | | 116 69 147 | |
| Analyte Surr: DNOP | 12 10.00 | 110 00 147 | |
| | SampType: MBLK | TestCode: EPA Method 8015M/D: Diese | el Range Organics |
| Surr: DNOP | | | el Range Organics |
| Surr: DNOP Sample ID: MB-75033 | SampType: MBLK | TestCode: EPA Method 8015M/D: Diese | el Range Organics |
| Surr: DNOP Sample ID: MB-75033 Client ID: PBS | SampType: MBLK Batch ID: 75033 Analysis Date: 5/19/2023 | TestCode: EPA Method 8015M/D: Diese RunNo: 96907 | el Range Organics %RPD RPDLimit Qual |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2305809

WO#:

31-May-23

Client: Vertex Resources Services, Inc. Project. Cotton Draw Unit 1 12 CTR

| Sample ID: MB-75033 | SampType: MBLK | To | estCode: EPA Method | 8015M/D: Diesel Ra | ange Organics | |
|---|------------------------|--------------------|--|---------------------------------|---------------|------|
| Client ID: PBS | Batch ID: 75033 | | RunNo: 96907 | | | |
| Prep Date: 5/18/2023 | Analysis Date: 5/19/20 |)23 | SeqNo: 3515403 | Units: mg/Kg | | |
| Analyte | Result PQL SP | K value SPK Ref Va | l %REC LowLimit | HighLimit %R | PD RPDLimit | Qual |
| Motor Oil Range Organics (MRO) | ND 50 | | | | | |
| Surr: DNOP | 9.7 | 10.00 | 96.5 69 | 147 | | |
| Sample ID: LCS-75018 | SampType: LCS | Te | estCode: EPA Method | 8015M/D: Diesel Ra | ange Organics | |
| Client ID: LCSS | Batch ID: 75018 | | RunNo: 96925 | | | |
| Prep Date: 5/17/2023 | Analysis Date: 5/22/20 |)23 | SeqNo: 3517131 | Units: %Rec | | |
| Analyte | Result PQL SP | K value SPK Ref Va | l %REC LowLimit | HighLimit %R | PD RPDLimit | Qual |
| Surr: DNOP | 5.3 | 5.000 | 106 69 | 147 | | |
| Sample ID: LCS-75114 | SampType: LCS | To | estCode: EPA Method | 8015M/D: Diesel Ra | ange Organics | |
| Client ID: LCSS | Batch ID: 75114 | | RunNo: 96945 | | | |
| Prep Date: 5/23/2023 | Analysis Date: 5/23/20 |)23 | SeqNo: 3517310 | Units: mg/Kg | | |
| Analyte | Result PQL SP | K value SPK Ref Va | l %REC LowLimit | HighLimit %R | PD RPDLimit | Qual |
| Diesel Range Organics (DRO) | 48 10 | F0 00 0 | | | | |
| Diesei Range Organics (DRO) | 40 10 | 50.00 0 | 96.9 61.9 | 130 | | |
| Surr: DNOP | 4.9 | 5.000 | 96.9 61.9 98.3 69 | 130 147 | | |
| 5 5 (, | | 5.000 | | 147 | ange Organics | |
| Surr: DNOP | 4.9 | 5.000 | 98.3 69 | 147 | ange Organics | |
| Surr: DNOP Sample ID: MB-75114 | 4.9 SampType: MBLK | 5.000 To | 98.3 69 estCode: EPA Method | 147 | ange Organics | |
| Surr: DNOP Sample ID: MB-75114 Client ID: PBS | Analysis Date: 5/23/20 | 5.000 To | 98.3 69 estCode: EPA Method RunNo: 96945 SeqNo: 3517311 | 147 8015M/D: Diesel Ra | | Qual |
| Surr: DNOP Sample ID: MB-75114 Client ID: PBS Prep Date: 5/23/2023 | Analysis Date: 5/23/20 | 5.000 To | 98.3 69 estCode: EPA Method RunNo: 96945 SeqNo: 3517311 | 8015M/D: Diesel Ra Units: mg/Kg | | Qual |

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.

12

10.00

Analyte detected in the associated Method Blank

122

147

- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305809**

31-May-23

| Client: | Vertex Resources Services, Inc. |
|----------|---------------------------------|
| Project: | Cotton Draw Unit 1 12 CTB |

| | tion Bruw Chit | 1 12 01 | | | | | | | | |
|-----------------------------|----------------|-------------------|-----------|-------------|-----------|-----------|-------------|------------|----------|------|
| Sample ID: 2305809-01 | 6ams Samp | Туре: М | 6 | Tes | tCode: El | PA Method | 8015D: Gaso | line Range | • | |
| Client ID: BH23-60 0' | Bato | h ID: 750 | 007 | F | RunNo: 9 | 6874 | | | | |
| Prep Date: 5/17/2023 | Analysis I | Date: 5/ 3 | 20/2023 | Ş | SeqNo: 3 | 515544 | Units: mg/k | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GR | 20) 21 | 4.7 | 23.50 | 0 | 87.4 | 70 | 130 | | | |
| Surr: BFB | 4500 | | 939.8 | | 480 | 15 | 244 | | | S |
| Sample ID: 2305809-01 | 6amsd Samp | Туре: М | SD | Tes | tCode: El | PA Method | 8015D: Gaso | line Range | • | |
| Client ID: BH23-60 0' | Bato | ch ID: 750 | 007 | F | RunNo: 9 | 6874 | | | | |
| Prep Date: 5/17/2023 | Analysis I | Date: 5/ | 20/2023 | 5 | SeqNo: 3 | 515545 | Units: mg/k | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GR | (0) 19 | 4.7 | 23.43 | 0 | 82.7 | 70 | 130 | 5.79 | 20 | |
| Surr: BFB | 4400 | | 937.2 | | 473 | 15 | 244 | 0 | 0 | S |
| Sample ID: Ics-75002 | Samp | Туре: LC | s | Tes | tCode: El | PA Method | 8015D: Gaso | line Range | • | |
| Client ID: LCSS | Bato | h ID: 750 | 002 | F | RunNo: 9 | 6874 | | | | |
| Prep Date: 5/17/2023 | Analysis I | Date: 5/ | 19/2023 | 5 | SeqNo: 3 | 515565 | Units: mg/k | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GR | | 5.0 | 25.00 | 0 | 80.3 | 70 | 130 | | | _ |
| Surr: BFB | 4600 | | 1000 | | 456 | 15 | 244 | | | S |
| Sample ID: Ics-75007 | Samp | Type: LC | s | Tes | tCode: El | PA Method | 8015D: Gaso | line Range | • | |
| Client ID: LCSS | Bato | h ID: 750 | 007 | F | RunNo: 9 | 6874 | | | | |
| Prep Date: 5/17/2023 | Analysis I | Date: 5/ | 20/2023 | 5 | SeqNo: 3 | 515566 | Units: mg/k | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GR | | 5.0 | 25.00 | 0 | 80.6 | 70 | 130 | | | • |
| Surr: BFB | 4600 | | 1000 | | 462 | 15 | 244 | | | S |
| Sample ID: mb-75002 | Samp | Туре: МЕ | BLK | Tes | tCode: El | PA Method | 8015D: Gaso | line Range | • | |
| Client ID: PBS | Bato | h ID: 750 | 002 | F | RunNo: 9 | 6874 | | | | |
| Prep Date: 5/17/2023 | Analysis I | Date: 5/ | 20/2023 | 5 | SeqNo: 3 | 515567 | Units: mg/k | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GR | | 5.0 | | | | | | | | |
| Surr: BFB | 720 | | 1000 | | 71.7 | 15 | 244 | | | |
| Sample ID: mb-75007 | Samp | Туре: МЕ | BLK | Tes | tCode: El | PA Method | 8015D: Gaso | line Range | • | |
| Client ID: PBS | Bato | h ID: 750 | 007 | F | RunNo: 9 | 6874 | | | | |
| Prep Date: 5/17/2023 | Analysis I | Date: 5/ | 20/2023 | 5 | SeqNo: 3 | 515568 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| | | | | | | | | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2305809 31-May-23

WO#:

Client: Vertex Resources Services, Inc. **Project:** Cotton Draw Unit 1 12 CTB

Sample ID: mb-75007 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 75007 RunNo: 96874

Prep Date: 5/17/2023 Analysis Date: 5/20/2023 SeqNo: 3515568 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

710 1000 Surr: BFB 71.1 15 244

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305809**

tal Analysis Laboratory, Inc.

31-May-23

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: LCS-75002 | Samp ¹ | Гуре: LC : | S | Tes | tCode: EF | | | | | | |
|----------------------------|--|-------------------|-----------|--------------------|-----------|----------|-----------|--------------|----------|------|--|
| Client ID: LCSS | Batch ID: 75002 RunNo: 96874 | | | | | | | | | | |
| Prep Date: 5/17/2023 | Analysis [| Date: 5/ * | 19/2023 | 023 SeqNo: 3515579 | | | | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Benzene | 0.91 | 0.025 | 1.000 | 0 | 91.4 | 70 | 130 | | | | |
| Toluene | 0.93 | 0.050 | 1.000 | 0 | 93.2 | 70 | 130 | | | | |
| Ethylbenzene | 0.94 | 0.050 | 1.000 | 0 | 94.3 | 70 | 130 | | | | |
| Xylenes, Total | 2.8 | 0.10 | 3.000 | 0 | 93.8 | 70 | 130 | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 104 | 39.1 | 146 | | | | |

| Sample ID: LCS-75007 | Samp | SampType: LCS TestCode: EPA Method 8021B: Volatiles | | | | | | | | |
|----------------------------|------------|---|-----------|-----------------------------|-----------|----------|-----------|------|----------|------|
| Client ID: LCSS | Batcl | h ID: 750 | 007 | F | RunNo: 96 | | | | | |
| Prep Date: 5/17/2023 | Analysis [| Date: 5/2 | 20/2023 | SeqNo: 3515580 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 | 90.4 | 70 | 130 | | | |
| Toluene | 0.91 | 0.050 | 1.000 | 0 | 91.4 | 70 | 130 | | | |
| Ethylbenzene | 0.93 | 0.050 | 1.000 | 0 | 92.5 | 70 | 130 | | | |
| Xylenes, Total | 2.8 | 0.10 | 3.000 | 0 | 92.1 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 102 | 39.1 | 146 | | | |

| Sample ID: mb-75002 | SampT | Гуре: МЕ | BLK | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: PBS | Batcl | h ID: 75 0 | 002 | F | RunNo: 90 | 6874 | | | | |
| Prep Date: 5/17/2023 | Analysis D | Date: 5/ 2 | 20/2023 | 5 | SeqNo: 3 | 515581 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 1.0 | | 1.000 | | 101 | 39.1 | 146 | | | |

| Sample ID: mb-75007 | SampT | уре: МЕ | BLK | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|-------------------|-----------|-------------|------------------|-----------|---------------|------|----------|------|
| Client ID: PBS | Batch | n ID: 75 0 | 007 | F | RunNo: 96 | 6874 | | | | |
| Prep Date: 5/17/2023 | Analysis D |)ate: 5/ 2 | 20/2023 | 9 | SeqNo: 3 | 515582 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.99 | | 1.000 | | 99.3 | 39.1 | 146 | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305809** *31-May-23*

Client: Vertex Resources Services, Inc.

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: 2305809-017ams | Samp ⁻ | Гуре: МЅ | 3 | Tes | TestCode: EPA Method 8021B: Volatiles | | | | | |
|----------------------------|-------------------|-------------------|-----------|-------------|---------------------------------------|----------|-------------|------|----------|------|
| Client ID: BH23-60 2' | Batc | h ID: 75 0 | 007 | F | RunNo: 96874 | | | | | |
| Prep Date: 5/17/2023 | Analysis [| Date: 5/ 2 | 20/2023 | 5 | SeqNo: 3 | 515642 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.82 | 0.023 | 0.9234 | 0 | 89.3 | 70 | 130 | | | |
| Toluene | 0.85 | 0.046 | 0.9234 | 0 | 91.9 | 70 | 130 | | | |
| Ethylbenzene | 0.87 | 0.046 | 0.9234 | 0 | 93.9 | 70 | 130 | | | |
| Xylenes, Total | 2.6 | 0.092 | 2.770 | 0 | 94.2 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.95 | | 0.9234 | | 103 | 39.1 | 146 | | | |

| Sample ID: 2305809-017ams | Samp | SampType: MSD TestCode: EPA Method | | | | | | iles | | |
|----------------------------|------------|--|-----------|-------------|-----------------------|----------|-----------|------|----------|------|
| Client ID: BH23-60 2' | Bato | Batch ID: 75007 RunNo: 96874 | | | | | | | | |
| Prep Date: 5/17/2023 | Analysis I | Date: 5/ 2 | 20/2023 | 5 | SeqNo: 3515643 | | | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.87 | 0.023 | 0.9225 | 0 | 94.7 | 70 | 130 | 5.81 | 20 | |
| Toluene | 0.90 | 0.046 | 0.9225 | 0 | 97.7 | 70 | 130 | 5.98 | 20 | |
| Ethylbenzene | 0.92 | 0.046 | 0.9225 | 0 | 100 | 70 | 130 | 6.38 | 20 | |
| Xylenes, Total | 2.8 | 0.092 | 2.768 | 0 | 99.4 | 70 | 130 | 5.23 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.96 | | 0.9225 | | 105 | 39.1 | 146 | 0 | 0 | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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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

Released to Imaging: 4/23/2025 2:19:30 PM

| | ertex Resources ervices, Inc. | Work | Order Number | : 2305809 | | RcptNo: | 1 |
|--------------------------|--|----------------------------|---------------|-----------|---------------|--|-------------------|
| Received By: J | uan Rojas | 5/16/202 | 23 4:10:00 PM | | Genter & | | |
| Completed By: C | Cheyenne Cason | 5/16/20 | 23 4:41:28 PM | | Chul | | |
| Reviewed By: | W 51 | 17/23 | | | - C-000000000 | | |
| Chain of Custo | <u>dv</u> | | | | _ | | |
| 1. Is Chain of Custo | ody complete? | | | Yes 🗹 | No 🗌 | Not Present 📙 | |
| 2. How was the sar | nple delivered? | | | Courier | | | |
| Log In 3. Was an attempt | made to cool the sa | amples? | | Yes 🗹 | No 🗆 | na 🗆 | |
| and an amount | | | | | | | |
| 4. Were all samples | received at a tem | perature of >0° C | to 6.0°C | Yes 🗹 | No 🗌 | NA \square | |
| 5. Sample(s) in pro | per container(s)? | | | Yes 🗹 | No 🗌 | | |
| 6. Sufficient sample | volume for indicat | ed test(s)? | | Yes 🗹 | No 🗌 | | |
| 7. Are samples (exc | | | ed? | Yes 🗹 | No 🗌 | | |
| 8. Was preservative | | 7 7. | | Yes 🗌 | No 🗹 | NA \square | |
| 9. Received at least | 1 vial with headsp | ace <1/4" for AQ V | OA? | Yes 🗌 | No 🗌 | NA 🗹 | |
| 10. Were any sample | e containers receiv | ed broken? | | Yes 🗌 | No ☑ ∫ | # of preserved | |
| 11. Does paperwork | | | | Yes 🗹 | No 🗆 | bottles checked for pH: | >12 unless noted) |
| 12. Are matrices con | ies on chain of cus ectly identified on (| • • | | Yes 🗹 | No 🗆 | Adjusted? | |
| 13. Is it clear what ar | | - | | Yes 🗹 | No 🗆 | | |
| 14. Were all holding | - | et? | | Yes 🗹 | No 🗆 | Checked by: | m5/17/23 |
| Special Handling | | | | | | | |
| 15. Was client notific | ed of all discrepand | cies with this order | · | Yes 🗌 | No 🗆 | NA 🗹 | -1 |
| Person No | tified: | | Date: | - | | | |
| By Whom: | and the same of th | | Via: | eMail [| Phone Fax | ☐ In Person | |
| Regarding | • | | | | | | |
| Client Inst | | | | - | | | 1 |
| 16. Additional rema | rks: | | | | | | |
| 17. Cooler Informa | | | , | | | | |
| Cooler No | Temp °C Condi | | | Seal Date | Signed By | The second of th | |
| | 3.0 Good 0.5 Good | Not Present Not Present | Yogi Yogi | | - | | |
| - | 0000 | HOLI IGSEIN | 1.09 | | 1 | The state of the s | |

| eceived by OGD. I | 740000 | eceive Chy 999: 1849 Cost 1648 Fecord | Turn-Around Time: | me: | | | I | ALL | EN | VIR | ONM | HALL ENVIRONMENT ALUS 523 | 3 |
|-------------------|-----------------|--|----------------------------|----------------------------|--------------------------------------|------------------------|---|--------------|---------------------------|------------------|-------------------------|--|--------|
| Client: | Vertex | | ¥ Standard | K Rush 5 | 5 Day | | A | NA | YSI | SL | ABO | ANALYSIS LABORATORY | |
| (direct bill | I to Devo | | Project Name: | | | | | www.ha | www.hallenvironmental.com | nment | al.com | | |
| Mailing Address: | | Mailing Address: | Cotton Draw Unit 1-12 CTB | Jnit 1-12 CTB | | 490 | 4901 Hawkins NE | s NE | - Albuc | nerdne | - Albuquerque, NM 87109 | 60 | |
| | | | Project #: | | | Tel. | 1. 505-345-3975 | 5-3975 | Еах | | 505-345-4107 | | |
| Phone #: | | | 23E-02423 | | | F | 1 | - | Analysis | S Keduesi | lesi (| | |
| email or Fax#: | | | Project Manager: | er: | | | s | S | os | | ļuəs | | |
| QA/QC Package: | | | Kent Stallings | | | | -CB. | SWIS | .≱Od | | dA\Jı | | |
| □ Standard | | ☐ Level 4 (Full Validation) | kstallings@vertex.ca | Tex.ca | | | | 075 | ر2ر | | seu | | _ |
| Accreditation: | ☐ Az Col☐ Other | mpliance | Sampler: S | S. McCarty | | ИТ \ <u>=</u>]\ОЯ | 808/sə 1.403 | 0 or 82 | | (AO) | ərY) n | | |
| (pe) | | | # of Coolers: | 2 | 909, | | | | ON | | lorn | | |
| | | | Cooler Temp(Including CF): | naturaling CF): 7 946. | 1=3.0 | | | | Br, | | iiloC | | |
| | | | Container | Preservative | 40.7.0.57 HEAL No. | | | a sH/ |)E' 1 | () 047 () 047 | O leto | | |
| Date Time | Matrix | Sample Name | # | Type 2.3 | 2305809 | - | \rightarrow | | CI | | ρŢ | | _ |
| 05/12/23 9:05 | Soil | BH23-55 0' | 1, 4oz jar | 100 | | × | | \dashv | × | - | | | \top |
| | Soil | BH23-55 2' | 1, 4oz jar | 200 | | × | | | × | \dashv | | | |
| 1 | Soil | BH23-55 4' | 1, 4oz jar | 503 | | × | | + | × | + | | | |
| 1 | Soil | BH23-56 0' | 1, 4oz jar | 200 | | × | | | × | - | | | \neg |
| \perp | i o | BH23-56 2' | 1, 4oz jar | 505 | | × | | | × | \dashv | | | \neg |
| | io | BH23-56 4' | 1, 4oz jar | 900 | | × | | | × | - | | | \top |
| | Soil | BH2 3 -57 0' | 1, 4oz jar | 100 | | × | | | × | | | | |
| | Soil | BH23-57 2' | 1, 4oz jar | 800 | 25 | × | - | | × | _ | | | |
| 05/12/23 10:20 | Soil | BH23-57 4' | 1, 4oz jar | 800 | | × | 1 | | × | + | | | |
| | Soil | BH23-58 0' | 1, 4oz jar | 010 | 0 | × | | \perp | × | - | 1 | | |
| | Soil | BH2 3 -58 2' | 1, 4oz jar | 00.1 | | × | | \downarrow | × | - | $\frac{1}{1}$ | | |
| 10.35 | G. | BH22-58 4' | 1, 4oz jar | 210 | | × | | | × | - | | | 1 |
| | Relinquished b | ned by. | Received by: | Via: | | Remarks Direct hil | cs: oill to De | w nov | ork ord | er 211 | 60360, D | Remarks: Direct hill to Devon work order 21160360, Dale Woodall | |
| 87.C | A PO | | Christian | W. | 00 | cc. kst | cc. kstallings@vertex.ca for Final Report | vertex | .ca for | Final F | Report | | |
| | Relinquis | hed // bed; | Received by: | | | | | | | | | 7 | |
| 1573 Aw | 0.44 | MMMMA MAMMA Any sub-contracted data will be clearly notated on the analytical report professional 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 | contracted to other a | ccredited laboratories. Th | 123 (6-1) is serves as notice of the | is possibility. | Any sub-co | intracted o | lata will be | clearly no | tated on the | analytical report. | |

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as

| eceived by QCD; | 79/20/2017 | eceive Chy agg. 13/4 2004 19/48 9 Plecord | Turn-Around Time: | ime: | | HA | LL EN | IVIR | ONME | HALL ENVIRONMENT ALL 523 |
|------------------|-----------------|--|----------------------------|--|--------------------|---|---------------------------|---------------|-----------------------|--------------------------|
| Client: | Vertex | | X Standard | Rush 5 Day | | AN | ALYS | IS | ANALYSIS LABORATORY | TORY |
| (direct b | ill to Devo | direct bill to Devon, work order 21160360) | Project Name: | | | WW | www.hallenvironmental.com | onmenta | l.com | |
| Mailing Address: | 1.6 | | Cotton Draw | Cotton Draw Unit 1-12 CTB | 4901 | 4901 Hawkins NE | , | ıquerque | Albuquerque, NM 87109 | |
| | | | Project #: | | Tel. | 505-345-3975 | 3 | Fax 505-345- | 505-345-4107 | |
| Phone #: | | | 23E-02423 | | | - | Anally | nhau sis |) (1 | |
| email or Fax#: | | | Project Manager: | er: | КО) | | | | ļuəs | |
| QA/QC Package: | | deilo/VIII.T/VIIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIIII.T/VIIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII.T/VIII | Kent Stallings | 0 × × | (80) s M / O | PCB' | ʻ⁵Od | | edA\tn | |
| □ Standard | | | PARTITION OF | | Яd | (1 | | | 986 | |
| Accreditation: | | mpliance | Sampler: On Ice: | S. McCarty Pres | NO9 | .408 | sli | (AO | n (Pre | |
| □ EDD (Type) | 1 1 | | # of Coolers: | 3600 | D(e | poy | stəN | | forn | |
| | | | Cooler Temp(including CF). | ncluding CF): 2 - 7 TC 5 - 0 | 91 | ļθγ | 18 | | ilo(| |
| | | | | Preservative HEAL No. | 08:H | A) 8C | CRA | () 09Z | O leto | |
| Date Time | Matrix | Sample Name | Type and # | Type 2365809 | 41 | 13 | Я | - | 1 | |
| 05/12/23 11:00 | Soil | BH23-59 0' | 1, 4oz jar | 013 | × | | × | | | |
| 05/12/23 11:05 | Soil | BH2 3 -59 2' | 1, 40z jar | 410 | × | | × | | | |
| 05/12/23 11:10 | _ | BH23-59 4' | 1, 4oz jar | 015 | × | | × | | | |
| | _ | BH23-60 0' | 1, 4oz jar | 818 | × | - | × | | | |
| | <u> </u> | BH23-60 2' | 1, 4oz jar | 217 | × | | × | | | |
| | _ | BH23-60 4' | 1, 4oz jar | 810 | × | | × | | | |
| | _ | BH23-61 0' | 1, 4oz jar | 610 | × | | × | | | |
| | | BH23-61 2' | 1, 4oz jar | 020 | × | | × | | | |
| | _ | BH2 3 -61 3.5' | 1, 4oz jar | 021 | × | | × | | | |
| | <u> </u> | BH2 3 -62 0' | 1, 4oz jar | 720 | × | + | × | | | |
| | <u> </u> | BH2 3 -62 2' | 1, 4oz jar | 023 | × | | × | | | |
| | _ | BH23-62 4' | 1, 4oz jar | 2.0 | × | | × | | | |
| | | hed by: | Received by: | Via: Date T | Remarks | : 0,000 | work o | der 2116 | Remarks: | Woodall |
| OUTO STAN | There of | 131 Me | CUMMU | 2/15/1/2 | cc. kstall | cc. kstallings@vertex.ca for Final Report | tex.ca fo | r Final R | eport | |
| Date: Time: | œ | illed by: | Received by: | Via: Date | 5 | | | | | 2/2 |
| 30 h/ lalch | Irv. Samples St | MOD (Court of the contracted to global submitted to the subcontracted to ghost accredited laboratories. | acontracted to other | f COUNTY S 16/25 / 5 / 16 16 16 16 16 16 16 16 | his possibility. A | ny sub-contrac | ted data will b | e clearly not | ated on the analyti | ical report. |

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.



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

July 06, 2023

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336

FAX:

RE: Cotton Draw Unit 1 12 CTB OrderNo.: 2306D50

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 30 sample(s) on 6/27/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-66 0.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/24/2023 9:00:00 AM

 Lab ID:
 2306D50-001
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|------------------------------------|---------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE O | RGANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 6/28/2023 10:26:39 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 6/28/2023 10:26:39 PM |
| Surr: DNOP | 79.5 | 69-147 | %Rec | 1 | 6/28/2023 10:26:39 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 6/29/2023 12:24:48 PM |
| Surr: BFB | 103 | 15-244 | %Rec | 1 | 6/29/2023 12:24:48 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 6/29/2023 12:24:48 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 6/29/2023 12:24:48 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 6/29/2023 12:24:48 PM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 6/29/2023 12:24:48 PM |
| Surr: 4-Bromofluorobenzene | 89.5 | 39.1-146 | %Rec | 1 | 6/29/2023 12:24:48 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 7/1/2023 12:48:01 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 40

Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-66 2.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/24/2023 9:10:00 AM

 Lab ID:
 2306D50-002
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 6/28/2023 10:37:35 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 6/28/2023 10:37:35 PM Surr: DNOP 82.9 69-147 %Rec 1 6/28/2023 10:37:35 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 6/29/2023 12:48:42 PM 4.6 mg/Kg 1 Surr: BFB 104 15-244 %Rec 1 6/29/2023 12:48:42 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 6/29/2023 12:48:42 PM 0.023 mg/Kg 1 Toluene ND 0.046 mg/Kg 1 6/29/2023 12:48:42 PM Ethylbenzene ND 0.046 mg/Kg 1 6/29/2023 12:48:42 PM Xylenes, Total ND 0.093 mg/Kg 1 6/29/2023 12:48:42 PM Surr: 4-Bromofluorobenzene 90.4 39.1-146 %Rec 1 6/29/2023 12:48:42 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride ND 59 20 7/1/2023 1:00:25 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 40

Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-67 0.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/24/2023 9:20:00 AM

 Lab ID:
 2306D50-003
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.7 | mg/Kg | 1 | 6/28/2023 10:48:29 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 6/28/2023 10:48:29 PM |
| Surr: DNOP | 86.9 | 69-147 | %Rec | 1 | 6/28/2023 10:48:29 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 6/29/2023 1:12:39 PM |
| Surr: BFB | 105 | 15-244 | %Rec | 1 | 6/29/2023 1:12:39 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 6/29/2023 1:12:39 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 6/29/2023 1:12:39 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 6/29/2023 1:12:39 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 6/29/2023 1:12:39 PM |
| Surr: 4-Bromofluorobenzene | 89.3 | 39.1-146 | %Rec | 1 | 6/29/2023 1:12:39 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 7/1/2023 1:12:50 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 40

Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-67 2.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/24/2023 9:30:00 AM

 Lab ID:
 2306D50-004
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.3 | mg/Kg | 1 | 6/28/2023 10:59:23 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 6/28/2023 10:59:23 PM |
| Surr: DNOP | 86.6 | 69-147 | %Rec | 1 | 6/28/2023 10:59:23 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 6/29/2023 1:36:43 PM |
| Surr: BFB | 107 | 15-244 | %Rec | 1 | 6/29/2023 1:36:43 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 6/29/2023 1:36:43 PM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 6/29/2023 1:36:43 PM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 6/29/2023 1:36:43 PM |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 6/29/2023 1:36:43 PM |
| Surr: 4-Bromofluorobenzene | 92.3 | 39.1-146 | %Rec | 1 | 6/29/2023 1:36:43 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 7/1/2023 1:25:15 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ple pH Not In Range Page 4 of 40

Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-68 0.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/24/2023 9:40:00 AM

 Lab ID:
 2306D50-005
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 6/28/2023 11:10:18 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 6/28/2023 11:10:18 PM |
| Surr: DNOP | 85.8 | 69-147 | %Rec | 1 | 6/28/2023 11:10:18 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 6/29/2023 2:00:52 PM |
| Surr: BFB | 110 | 15-244 | %Rec | 1 | 6/29/2023 2:00:52 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 6/29/2023 2:00:52 PM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 6/29/2023 2:00:52 PM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 6/29/2023 2:00:52 PM |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 6/29/2023 2:00:52 PM |
| Surr: 4-Bromofluorobenzene | 90.8 | 39.1-146 | %Rec | 1 | 6/29/2023 2:00:52 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | 1000 | 60 | mg/Kg | 20 | 7/1/2023 1:37:39 AM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 40

Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-68 2.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/24/2023 9:50:00 AM

 Lab ID:
 2306D50-006
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.2 mg/Kg 1 6/28/2023 11:21:19 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 6/28/2023 11:21:19 PM Surr: DNOP 82.6 69-147 %Rec 1 6/28/2023 11:21:19 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 6/29/2023 2:25:06 PM 4.9 mg/Kg 1 Surr: BFB 110 15-244 %Rec 1 6/29/2023 2:25:06 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 6/29/2023 2:25:06 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 6/29/2023 2:25:06 PM Ethylbenzene ND 0.049 mg/Kg 1 6/29/2023 2:25:06 PM Xylenes, Total ND 0.097 mg/Kg 1 6/29/2023 2:25:06 PM Surr: 4-Bromofluorobenzene 91.8 39.1-146 %Rec 1 6/29/2023 2:25:06 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 7/1/2023 1:50:04 AM 300 60 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 40

Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-69 0.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/24/2023 10:00:00 AM

 Lab ID:
 2306D50-007
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 6/29/2023 11:06:42 AM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 6/29/2023 11:06:42 AM |
| Surr: DNOP | 102 | 69-147 | %Rec | 1 | 6/29/2023 11:06:42 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 6/30/2023 12:50:00 AM |
| Surr: BFB | 94.3 | 15-244 | %Rec | 1 | 6/30/2023 12:50:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 6/30/2023 12:50:00 AM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 6/30/2023 12:50:00 AM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 6/30/2023 12:50:00 AM |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 6/30/2023 12:50:00 AM |
| Surr: 4-Bromofluorobenzene | 93.1 | 39.1-146 | %Rec | 1 | 6/30/2023 12:50:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 7/1/2023 2:02:28 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ple pH Not In Range
Orting Limit Page 7 of 40

Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-69 2.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/24/2023 10:10:00 AM

 Lab ID:
 2306D50-008
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|---------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OF | RGANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 6/29/2023 11:38:37 AM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 6/29/2023 11:38:37 AM |
| Surr: DNOP | 95.4 | 69-147 | %Rec | 1 | 6/29/2023 11:38:37 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 6/30/2023 1:55:00 AM |
| Surr: BFB | 96.7 | 15-244 | %Rec | 1 | 6/30/2023 1:55:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 6/30/2023 1:55:00 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 6/30/2023 1:55:00 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 6/30/2023 1:55:00 AM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 6/30/2023 1:55:00 AM |
| Surr: 4-Bromofluorobenzene | 91.7 | 39.1-146 | %Rec | 1 | 6/30/2023 1:55:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 6/30/2023 3:04:47 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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EPA METHOD 8021B: VOLATILES

Benzene

Toluene

Analytical Report Lab Order 2306D50

Date Reported: 7/6/2023

Analyst: KMN

6/30/2023 3:00:00 AM

6/30/2023 3:00:00 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-70 0.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/24/2023 10:20:00 AM

 Lab ID:
 2306D50-009
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 8.8 mg/Kg 1 6/29/2023 11:49:17 AM Motor Oil Range Organics (MRO) ND 44 mg/Kg 1 6/29/2023 11:49:17 AM Surr: DNOP 100 69-147 %Rec 1 6/29/2023 11:49:17 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 6/30/2023 3:00:00 AM 4.8 mg/Kg 1 Surr: BFB 93.4 15-244 %Rec 1 6/30/2023 3:00:00 AM

Ethylbenzene ND 0.048 mg/Kg 1 6/30/2023 3:00:00 AM Xylenes, Total ND 0.096 mg/Kg 1 6/30/2023 3:00:00 AM Surr: 4-Bromofluorobenzene 91.7 39.1-146 %Rec 1 6/30/2023 3:00:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT mg/Kg Chloride 6/30/2023 9:29:29 PM ND 60 20

ND

ND

0.024

0.048

mg/Kg

mg/Kg

1

1

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-70 2.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/24/2023 10:30:00 AM

 Lab ID:
 2306D50-010
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.0 | mg/Kg | 1 | 6/29/2023 11:59:57 AM |
| Motor Oil Range Organics (MRO) | ND | 45 | mg/Kg | 1 | 6/29/2023 11:59:57 AM |
| Surr: DNOP | 104 | 69-147 | %Rec | 1 | 6/29/2023 11:59:57 AM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 6/30/2023 3:22:00 AM |
| Surr: BFB | 93.1 | 15-244 | %Rec | 1 | 6/30/2023 3:22:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 6/30/2023 3:22:00 AM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 6/30/2023 3:22:00 AM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 6/30/2023 3:22:00 AM |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 6/30/2023 3:22:00 AM |
| Surr: 4-Bromofluorobenzene | 91.2 | 39.1-146 | %Rec | 1 | 6/30/2023 3:22:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 6/30/2023 3:54:25 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-71 0.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/24/2023 10:40:00 AM

 Lab ID:
 2306D50-011
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 6/29/2023 12:10:39 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 6/29/2023 12:10:39 PM |
| Surr: DNOP | 98.7 | 69-147 | %Rec | 1 | 6/29/2023 12:10:39 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 6/30/2023 3:44:00 AM |
| Surr: BFB | 96.6 | 15-244 | %Rec | 1 | 6/30/2023 3:44:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 6/30/2023 3:44:00 AM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 6/30/2023 3:44:00 AM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 6/30/2023 3:44:00 AM |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 6/30/2023 3:44:00 AM |
| Surr: 4-Bromofluorobenzene | 91.2 | 39.1-146 | %Rec | 1 | 6/30/2023 3:44:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | 240 | 60 | mg/Kg | 20 | 6/30/2023 4:31:39 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/6/2023

CLIENT: Devon Energy Client Sample ID: BH23-71 2.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/24/2023 10:50:00 AM

 Lab ID:
 2306D50-012
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 8.4 | mg/Kg | 1 | 6/29/2023 12:21:20 PM |
| Motor Oil Range Organics (MRO) | ND | 42 | mg/Kg | 1 | 6/29/2023 12:21:20 PM |
| Surr: DNOP | 102 | 69-147 | %Rec | 1 | 6/29/2023 12:21:20 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.6 | mg/Kg | 1 | 6/30/2023 4:06:00 AM |
| Surr: BFB | 89.8 | 15-244 | %Rec | 1 | 6/30/2023 4:06:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.023 | mg/Kg | 1 | 6/30/2023 4:06:00 AM |
| Toluene | ND | 0.046 | mg/Kg | 1 | 6/30/2023 4:06:00 AM |
| Ethylbenzene | ND | 0.046 | mg/Kg | 1 | 6/30/2023 4:06:00 AM |
| Xylenes, Total | ND | 0.091 | mg/Kg | 1 | 6/30/2023 4:06:00 AM |
| Surr: 4-Bromofluorobenzene | 90.1 | 39.1-146 | %Rec | 1 | 6/30/2023 4:06:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 61 | mg/Kg | 20 | 6/30/2023 5:08:53 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-71 4.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/24/2023 11:00:00 AM

 Lab ID:
 2306D50-013
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|---------------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 9.3 | mg/Kg | 1 | 6/29/2023 12:32:04 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 6/29/2023 12:32:04 PM |
| Surr: DNOP | 117 | 69-147 | %Rec | 1 | 6/29/2023 12:32:04 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 6/30/2023 4:27:00 AM |
| Surr: BFB | 92.7 | 15-244 | %Rec | 1 | 6/30/2023 4:27:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 6/30/2023 4:27:00 AM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 6/30/2023 4:27:00 AM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 6/30/2023 4:27:00 AM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 6/30/2023 4:27:00 AM |
| Surr: 4-Bromofluorobenzene | 91.6 | 39.1-146 | %Rec | 1 | 6/30/2023 4:27:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 6/30/2023 5:21:17 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-72 0.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/24/2023 11:10:00 AM

 Lab ID:
 2306D50-014
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|---------------------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 9.4 | mg/Kg | 1 | 6/29/2023 12:53:27 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 6/29/2023 12:53:27 PM |
| Surr: DNOP | 129 | 69-147 | %Rec | 1 | 6/29/2023 12:53:27 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 6/30/2023 4:49:00 AM |
| Surr: BFB | 92.6 | 15-244 | %Rec | 1 | 6/30/2023 4:49:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 6/30/2023 4:49:00 AM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 6/30/2023 4:49:00 AM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 6/30/2023 4:49:00 AM |
| Xylenes, Total | ND | 0.095 | mg/Kg | 1 | 6/30/2023 4:49:00 AM |
| Surr: 4-Bromofluorobenzene | 91.1 | 39.1-146 | %Rec | 1 | 6/30/2023 4:49:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | 82 | 60 | mg/Kg | 20 | 6/30/2023 5:33:42 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-72 2.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/24/2023 11:20:00 AM

 Lab ID:
 2306D50-015
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|---------------------------------------|---------------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 9.1 | mg/Kg | 1 | 6/29/2023 1:04:12 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 6/29/2023 1:04:12 PM |
| Surr: DNOP | 112 | 69-147 | %Rec | 1 | 6/29/2023 1:04:12 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 6/30/2023 5:11:00 AM |
| Surr: BFB | 95.2 | 15-244 | %Rec | 1 | 6/30/2023 5:11:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 6/30/2023 5:11:00 AM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 6/30/2023 5:11:00 AM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 6/30/2023 5:11:00 AM |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 6/30/2023 5:11:00 AM |
| Surr: 4-Bromofluorobenzene | 90.4 | 39.1-146 | %Rec | 1 | 6/30/2023 5:11:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | 70 | 60 | mg/Kg | 20 | 6/30/2023 5:46:06 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-72 4.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/24/2023 11:30:00 AM

 Lab ID:
 2306D50-016
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|---------------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 6/29/2023 1:14:55 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 6/29/2023 1:14:55 PM |
| Surr: DNOP | 110 | 69-147 | %Rec | 1 | 6/29/2023 1:14:55 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.6 | mg/Kg | 1 | 6/30/2023 6:16:00 AM |
| Surr: BFB | 92.9 | 15-244 | %Rec | 1 | 6/30/2023 6:16:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.023 | mg/Kg | 1 | 6/30/2023 6:16:00 AM |
| Toluene | ND | 0.046 | mg/Kg | 1 | 6/30/2023 6:16:00 AM |
| Ethylbenzene | ND | 0.046 | mg/Kg | 1 | 6/30/2023 6:16:00 AM |
| Xylenes, Total | ND | 0.092 | mg/Kg | 1 | 6/30/2023 6:16:00 AM |
| Surr: 4-Bromofluorobenzene | 93.4 | 39.1-146 | %Rec | 1 | 6/30/2023 6:16:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 6/30/2023 5:58:31 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ple pH Not In Range
orting Limit Page 16 of 40

Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-73 0.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/24/2023 11:40:00 AM

 Lab ID:
 2306D50-017
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|---------------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 6/29/2023 1:25:40 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 6/29/2023 1:25:40 PM |
| Surr: DNOP | 114 | 69-147 | %Rec | 1 | 6/29/2023 1:25:40 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.6 | mg/Kg | 1 | 6/30/2023 6:38:00 AM |
| Surr: BFB | 95.1 | 15-244 | %Rec | 1 | 6/30/2023 6:38:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.023 | mg/Kg | 1 | 6/30/2023 6:38:00 AM |
| Toluene | ND | 0.046 | mg/Kg | 1 | 6/30/2023 6:38:00 AM |
| Ethylbenzene | ND | 0.046 | mg/Kg | 1 | 6/30/2023 6:38:00 AM |
| Xylenes, Total | ND | 0.092 | mg/Kg | 1 | 6/30/2023 6:38:00 AM |
| Surr: 4-Bromofluorobenzene | 94.0 | 39.1-146 | %Rec | 1 | 6/30/2023 6:38:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | 98 | 60 | mg/Kg | 20 | 6/30/2023 6:10:56 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-73 2.0'

Project: Cotton Draw Unit 1 12 CTB **Collection Date:** 6/24/2023 11:50:00 AM Lab ID: 2306D50-018 Matrix: SOIL Received Date: 6/27/2023 7:35:00 AM

Analyses DI Qual Unite DE

| Result | RL Qu | al Units | DF | Date Analyzed |
|--------|---|---|---|--|
| GANICS | | | | Analyst: DGH |
| ND | 8.6 | mg/Kg | 1 | 6/29/2023 1:36:27 PM |
| ND | 43 | mg/Kg | 1 | 6/29/2023 1:36:27 PM |
| 90.1 | 69-147 | %Rec | 1 | 6/29/2023 1:36:27 PM |
| | | | | Analyst: KMN |
| ND | 4.7 | mg/Kg | 1 | 6/30/2023 6:59:00 AM |
| 97.3 | 15-244 | %Rec | 1 | 6/30/2023 6:59:00 AM |
| | | | | Analyst: KMN |
| ND | 0.023 | mg/Kg | 1 | 6/30/2023 6:59:00 AM |
| ND | 0.047 | mg/Kg | 1 | 6/30/2023 6:59:00 AM |
| ND | 0.047 | mg/Kg | 1 | 6/30/2023 6:59:00 AM |
| ND | 0.094 | mg/Kg | 1 | 6/30/2023 6:59:00 AM |
| 92.7 | 39.1-146 | %Rec | 1 | 6/30/2023 6:59:00 AM |
| | | | | Analyst: JTT |
| 160 | 60 | mg/Kg | 20 | 6/30/2023 6:23:20 PM |
| | MD ND 90.1 ND 97.3 ND 92.7 | MD 8.6 ND 43 90.1 69-147 ND 4.7 97.3 15-244 ND 0.023 ND 0.047 ND 0.047 ND 0.094 92.7 39.1-146 | GANICS ND 8.6 mg/Kg ND 43 mg/Kg 90.1 69-147 %Rec ND 4.7 mg/Kg 97.3 15-244 %Rec ND 0.023 mg/Kg ND 0.047 mg/Kg ND 0.047 mg/Kg ND 0.094 mg/Kg 92.7 39.1-146 %Rec | MD 8.6 mg/Kg 1 ND 43 mg/Kg 1 90.1 69-147 %Rec 1 ND 4.7 mg/Kg 1 97.3 15-244 %Rec 1 ND 0.023 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.094 mg/Kg 1 92.7 39.1-146 %Rec 1 |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank

Ε Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 18 of 40

Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-74 0.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/24/2023 12:00:00 PM

 Lab ID:
 2306D50-019
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|---------------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 10 | mg/Kg | 1 | 6/29/2023 1:47:12 PM |
| Motor Oil Range Organics (MRO) | ND | 50 | mg/Kg | 1 | 6/29/2023 1:47:12 PM |
| Surr: DNOP | 92.2 | 69-147 | %Rec | 1 | 6/29/2023 1:47:12 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 6/30/2023 7:21:00 AM |
| Surr: BFB | 94.5 | 15-244 | %Rec | 1 | 6/30/2023 7:21:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 6/30/2023 7:21:00 AM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 6/30/2023 7:21:00 AM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 6/30/2023 7:21:00 AM |
| Xylenes, Total | ND | 0.096 | mg/Kg | 1 | 6/30/2023 7:21:00 AM |
| Surr: 4-Bromofluorobenzene | 91.9 | 39.1-146 | %Rec | 1 | 6/30/2023 7:21:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 6/30/2023 6:35:44 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-74 2.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/24/2023 12:10:00 PM

 Lab ID:
 2306D50-020
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|---------------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 8.8 | mg/Kg | 1 | 6/29/2023 1:58:00 PM |
| Motor Oil Range Organics (MRO) | ND | 44 | mg/Kg | 1 | 6/29/2023 1:58:00 PM |
| Surr: DNOP | 92.9 | 69-147 | %Rec | 1 | 6/29/2023 1:58:00 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.6 | mg/Kg | 1 | 6/30/2023 7:43:00 AM |
| Surr: BFB | 92.8 | 15-244 | %Rec | 1 | 6/30/2023 7:43:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.023 | mg/Kg | 1 | 6/30/2023 7:43:00 AM |
| Toluene | ND | 0.046 | mg/Kg | 1 | 6/30/2023 7:43:00 AM |
| Ethylbenzene | ND | 0.046 | mg/Kg | 1 | 6/30/2023 7:43:00 AM |
| Xylenes, Total | ND | 0.092 | mg/Kg | 1 | 6/30/2023 7:43:00 AM |
| Surr: 4-Bromofluorobenzene | 93.8 | 39.1-146 | %Rec | 1 | 6/30/2023 7:43:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 6/30/2023 6:48:08 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-75 0.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/25/2023 11:00:00 AM

 Lab ID:
 2306D50-021
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|---------------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 9.2 | mg/Kg | 1 | 6/29/2023 2:08:49 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 6/29/2023 2:08:49 PM |
| Surr: DNOP | 81.2 | 69-147 | %Rec | 1 | 6/29/2023 2:08:49 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 6/30/2023 8:05:00 AM |
| Surr: BFB | 93.4 | 15-244 | %Rec | 1 | 6/30/2023 8:05:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 6/30/2023 8:05:00 AM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 6/30/2023 8:05:00 AM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 6/30/2023 8:05:00 AM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 6/30/2023 8:05:00 AM |
| Surr: 4-Bromofluorobenzene | 92.7 | 39.1-146 | %Rec | 1 | 6/30/2023 8:05:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 6/30/2023 7:00:33 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-75 2.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/25/2023 11:10:00 AM

 Lab ID:
 2306D50-022
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|---------------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 9.4 | mg/Kg | 1 | 6/29/2023 2:19:39 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 6/29/2023 2:19:39 PM |
| Surr: DNOP | 88.1 | 69-147 | %Rec | 1 | 6/29/2023 2:19:39 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 6/30/2023 8:27:00 AM |
| Surr: BFB | 93.6 | 15-244 | %Rec | 1 | 6/30/2023 8:27:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 6/30/2023 8:27:00 AM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 6/30/2023 8:27:00 AM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 6/30/2023 8:27:00 AM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 6/30/2023 8:27:00 AM |
| Surr: 4-Bromofluorobenzene | 92.8 | 39.1-146 | %Rec | 1 | 6/30/2023 8:27:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 6/30/2023 7:37:46 PM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-76 0.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/25/2023 11:20:00 AM

 Lab ID:
 2306D50-023
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|---------------------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | Analyst: DGH | | | | |
| Diesel Range Organics (DRO) | ND | 9.2 | mg/Kg | 1 | 6/29/2023 2:30:37 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 6/29/2023 2:30:37 PM |
| Surr: DNOP | 107 | 69-147 | %Rec | 1 | 6/29/2023 2:30:37 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 6/30/2023 8:48:00 AM |
| Surr: BFB | 93.6 | 15-244 | %Rec | 1 | 6/30/2023 8:48:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 6/30/2023 8:48:00 AM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 6/30/2023 8:48:00 AM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 6/30/2023 8:48:00 AM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 6/30/2023 8:48:00 AM |
| Surr: 4-Bromofluorobenzene | 91.2 | 39.1-146 | %Rec | 1 | 6/30/2023 8:48:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | 510 | 60 | mg/Kg | 20 | 6/30/2023 7:50:11 PM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-76 2.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/25/2023 11:30:00 AM

 Lab ID:
 2306D50-024
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.3 | mg/Kg | 1 | 6/29/2023 2:41:35 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 6/29/2023 2:41:35 PM |
| Surr: DNOP | 96.5 | 69-147 | %Rec | 1 | 6/29/2023 2:41:35 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 6/30/2023 9:10:00 AM |
| Surr: BFB | 93.6 | 15-244 | %Rec | 1 | 6/30/2023 9:10:00 AM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.023 | mg/Kg | 1 | 6/30/2023 9:10:00 AM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 6/30/2023 9:10:00 AM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 6/30/2023 9:10:00 AM |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 6/30/2023 9:10:00 AM |
| Surr: 4-Bromofluorobenzene | 91.8 | 39.1-146 | %Rec | 1 | 6/30/2023 9:10:00 AM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | 130 | 60 | mg/Kg | 20 | 6/30/2023 8:02:36 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-76 4.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/25/2023 11:40:00 AM

 Lab ID:
 2306D50-025
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|---------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 6/29/2023 2:52:35 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 6/29/2023 2:52:35 PM |
| Surr: DNOP | 93.8 | 69-147 | %Rec | 1 | 6/29/2023 2:52:35 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 6/29/2023 1:48:00 PM |
| Surr: BFB | 94.7 | 15-244 | %Rec | 1 | 6/29/2023 1:48:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 6/29/2023 1:48:00 PM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 6/29/2023 1:48:00 PM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 6/29/2023 1:48:00 PM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 6/29/2023 1:48:00 PM |
| Surr: 4-Bromofluorobenzene | 95.4 | 39.1-146 | %Rec | 1 | 6/29/2023 1:48:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | 87 | 60 | mg/Kg | 20 | 6/30/2023 8:15:01 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-77 0.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/25/2023 11:50:00 AM

 Lab ID:
 2306D50-026
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|------|-------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS | | | | | Analyst: DGH |
| Diesel Range Organics (DRO) | 1000 | 98 | | mg/Kg | 10 | 6/29/2023 4:49:42 PM |
| Motor Oil Range Organics (MRO) | 860 | 490 | | mg/Kg | 10 | 6/29/2023 4:49:42 PM |
| Surr: DNOP | 0 | 69-147 | S | %Rec | 10 | 6/29/2023 4:49:42 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.7 | | mg/Kg | 1 | 6/29/2023 2:54:00 PM |
| Surr: BFB | 100 | 15-244 | | %Rec | 1 | 6/29/2023 2:54:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: KMN |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 6/29/2023 2:54:00 PM |
| Toluene | ND | 0.047 | | mg/Kg | 1 | 6/29/2023 2:54:00 PM |
| Ethylbenzene | ND | 0.047 | | mg/Kg | 1 | 6/29/2023 2:54:00 PM |
| Xylenes, Total | ND | 0.094 | | mg/Kg | 1 | 6/29/2023 2:54:00 PM |
| Surr: 4-Bromofluorobenzene | 96.3 | 39.1-146 | | %Rec | 1 | 6/29/2023 2:54:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JTT |
| Chloride | ND | 60 | | mg/Kg | 20 | 6/30/2023 8:27:26 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-77 2.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/25/2023 12:00:00 PM

 Lab ID:
 2306D50-027
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 8.6 | mg/Kg | 1 | 6/30/2023 4:13:54 PM |
| Motor Oil Range Organics (MRO) | ND | 43 | mg/Kg | 1 | 6/30/2023 4:13:54 PM |
| Surr: DNOP | 84.0 | 69-147 | %Rec | 1 | 6/30/2023 4:13:54 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 6/29/2023 4:01:00 PM |
| Surr: BFB | 101 | 15-244 | %Rec | 1 | 6/29/2023 4:01:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 6/29/2023 4:01:00 PM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 6/29/2023 4:01:00 PM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 6/29/2023 4:01:00 PM |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 6/29/2023 4:01:00 PM |
| Surr: 4-Bromofluorobenzene | 96.9 | 39.1-146 | %Rec | 1 | 6/29/2023 4:01:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JTT |
| Chloride | ND | 60 | mg/Kg | 20 | 6/30/2023 8:39:50 PM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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CLIENT: Devon Energy

Analytical Report Lab Order 2306D50

Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH23-77 4.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/25/2023 12:10:00 PM

 Lab ID:
 2306D50-028
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.5 mg/Kg 1 6/30/2023 4:24:44 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 6/30/2023 4:24:44 PM Surr: DNOP 90.8 69-147 %Rec 1 6/30/2023 4:24:44 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 6/29/2023 4:23:00 PM 4.7 mg/Kg 1 Surr: BFB 97.6 15-244 %Rec 1 6/29/2023 4:23:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 6/29/2023 4:23:00 PM 0.023 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 6/29/2023 4:23:00 PM Ethylbenzene ND 0.047 mg/Kg 1 6/29/2023 4:23:00 PM Xylenes, Total ND 0.094 mg/Kg 1 6/29/2023 4:23:00 PM Surr: 4-Bromofluorobenzene 96.0 39.1-146 %Rec 1 6/29/2023 4:23:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT mg/Kg Chloride 7/3/2023 10:42:13 AM 92 60 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-78 0.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/25/2023 12:20:00 PM

 Lab ID:
 2306D50-029
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.4 | mg/Kg | 1 | 6/30/2023 4:35:34 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 6/30/2023 4:35:34 PM |
| Surr: DNOP | 88.8 | 69-147 | %Rec | 1 | 6/30/2023 4:35:34 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.6 | mg/Kg | 1 | 6/29/2023 4:45:00 PM |
| Surr: BFB | 99.1 | 15-244 | %Rec | 1 | 6/29/2023 4:45:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.023 | mg/Kg | 1 | 6/29/2023 4:45:00 PM |
| Toluene | ND | 0.046 | mg/Kg | 1 | 6/29/2023 4:45:00 PM |
| Ethylbenzene | ND | 0.046 | mg/Kg | 1 | 6/29/2023 4:45:00 PM |
| Xylenes, Total | ND | 0.093 | mg/Kg | 1 | 6/29/2023 4:45:00 PM |
| Surr: 4-Bromofluorobenzene | 95.8 | 39.1-146 | %Rec | 1 | 6/29/2023 4:45:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JMT |
| Chloride | ND | 60 | mg/Kg | 20 | 7/3/2023 11:19:26 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-78 2.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/25/2023 12:30:00 PM

 Lab ID:
 2306D50-030
 Matrix: SOIL
 Received Date: 6/27/2023 7:35:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.1 | mg/Kg | 1 | 6/30/2023 4:46:27 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 6/30/2023 4:46:27 PM |
| Surr: DNOP | 102 | 69-147 | %Rec | 1 | 6/30/2023 4:46:27 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.6 | mg/Kg | 1 | 6/29/2023 5:07:00 PM |
| Surr: BFB | 98.1 | 15-244 | %Rec | 1 | 6/29/2023 5:07:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.023 | mg/Kg | 1 | 6/29/2023 5:07:00 PM |
| Toluene | ND | 0.046 | mg/Kg | 1 | 6/29/2023 5:07:00 PM |
| Ethylbenzene | ND | 0.046 | mg/Kg | 1 | 6/29/2023 5:07:00 PM |
| Xylenes, Total | ND | 0.092 | mg/Kg | 1 | 6/29/2023 5:07:00 PM |
| Surr: 4-Bromofluorobenzene | 95.2 | 39.1-146 | %Rec | 1 | 6/29/2023 5:07:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JMT |
| Chloride | ND | 60 | mg/Kg | 20 | 7/3/2023 12:21:27 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2306D50** *06-Jul-23*

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

Sample ID: MB-75919 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 75919 RunNo: 97859

Prep Date: 6/29/2023 Analysis Date: 6/30/2023 SeqNo: 3559842 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-75919 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 75919 RunNo: 97859

Prep Date: 6/29/2023 Analysis Date: 6/30/2023 SeqNo: 3559843 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.6 90 110

Sample ID: MB-75936 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 75936 RunNo: 97859

Prep Date: 6/29/2023 Analysis Date: 6/30/2023 SeqNo: 3559844 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-75936 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 75936 RunNo: 97859

Prep Date: 6/29/2023 Analysis Date: 6/30/2023 SeqNo: 3559845 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.8 90 110

Sample ID: MB-75936 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 75936 RunNo: 97859

Prep Date: 6/29/2023 Analysis Date: 6/30/2023 SeqNo: 3559876 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-75936 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 75936 RunNo: 97859

Prep Date: 6/29/2023 Analysis Date: 6/30/2023 SeqNo: 3559877 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.1 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2306D50**

06-Jul-23

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

Sample ID: MB-75962 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 75962 RunNo: 97896

Prep Date: 7/3/2023 Analysis Date: 7/3/2023 SeqNo: 3561639 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-75962 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 75962 RunNo: 97896

Prep Date: 7/3/2023 Analysis Date: 7/3/2023 SeqNo: 3561640 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.2 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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2306D50 06-Jul-23

Client: Devon Energy

Cotton Draw Unit 1 12 CTB **Project:**

Sample ID: LCS-75869 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

RunNo: 97779 Client ID: LCSS Batch ID: 75869

Analysis Date: 6/28/2023 SeqNo: 3557674 Prep Date: 6/27/2023 Units: %Rec

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

Surr: DNOP 4.2 5.000 83.9 69 147

Sample ID: LCS-75892 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS Client ID: LCSS Batch ID: 75892

RunNo: 97779

Prep Date: 6/28/2023 Analysis Date: 6/28/2023 SeqNo: 3557675 Units: mq/Kq

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 35 10 50.00 69.7 61.9 130

Surr: DNOP 78.6 3.9 5.000 69 147

Sample ID: MB-75869 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

PBS Batch ID: 75869 Client ID: RunNo: 97779

Prep Date: 6/27/2023 Analysis Date: 6/28/2023 SeqNo: 3557676 Units: %Rec

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual 10.00 Surr: DNOP 10 103 69 147

Sample ID: MB-75892 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 75892 RunNo: 97779 Prep Date: 6/28/2023 Analysis Date: 6/28/2023 SeqNo: 3557677 Units: mg/Kg %RPD Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 7.7 10.00

Sample ID: 2306D50-007AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: BH23-69 0.0' Batch ID: 75903 RunNo: 97829 Prep Date: 6/28/2023 Analysis Date: 6/29/2023 SeqNo: 3558284 Units: mg/Kg

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit Qual Diesel Range Organics (DRO) 45 9.4 47.17 0 95.9 54.2 135 Surr: DNOP 4.3 4.717 90.5 69 147

Sample ID: 2306D50-007AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: BH23-69 0.0' Batch ID: 75903 RunNo: 97829

Prep Date: 6/28/2023 Analysis Date: 6/29/2023 SeqNo: 3558285 Units: mg/Kg

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

Diesel Range Organics (DRO) 51 8.9 44.68 114 54.2 135 12.1 29.2

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank

76.5

69

147

- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

4.5

9.2

4.2

SampType: MBLK

WO#: 2306D50 06-Jul-23

Client: Devon Energy

Surr: DNOP

Surr: DNOP

Surr: DNOP

Sample ID: MB-75903

Cotton Draw Unit 1 12 CTB **Project:**

Sample ID: 2306D50-007AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BH23-69 0.0' Batch ID: 75903 RunNo: 97829

Prep Date: 6/28/2023 Analysis Date: 6/29/2023 SeqNo: 3558285 Units: mg/Kg

5.000

10.00

4.429

SPK Ref Val %RPD **RPDLimit** Analyte Result POI SPK value %REC LowLimit HighLimit Qual Surr: DNOP 5.2 4.468 116 69 147 n n

Sample ID: LCS-75903 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS Client ID: LCSS Batch ID: 75903 RunNo: 97829 Prep Date: 6/28/2023 Analysis Date: 6/29/2023 SeqNo: 3558305 Units: mq/Kq Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 46 10 50.00 91.4 61.9 130

89.1

92.2

95.9

69

69

69

147

147

147

TestCode: EPA Method 8015M/D: Diesel Range Organics

PBS Batch ID: 75903 Client ID: RunNo: 97829 Prep Date: 6/28/2023 Analysis Date: 6/29/2023 SeaNo: 3558306 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** LowLimit Qual ND Diesel Range Organics (DRO) 10 Motor Oil Range Organics (MRO) ND 50

Sample ID: 2306D50-027AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics Batch ID: 75907 Client ID: BH23-77 2.0' RunNo: 97879 Prep Date: 6/29/2023 Analysis Date: 6/30/2023 SeqNo: 3560450 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 36 8.9 44.29 135 82.4 54.2

Sample ID: 2306D50-027AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: BH23-77 2.0' Batch ID: 75907 RunNo: 97879 Prep Date: 6/29/2023 Analysis Date: 6/30/2023 SeqNo: 3560451 Units: mg/Kg Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Diesel Range Organics (DRO) 34 8.7 43.44 0 54.2 78.2 135 7.21 29.2 Surr: DNOP 4.0 4.344 92.4 69 147 0 0

Sample ID: LCS-75907 TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: LCS Client ID: LCSS Batch ID: 75907 RunNo: 97879

Prep Date: 6/29/2023 Analysis Date: 6/30/2023 SeqNo: 3560506 Units: mg/Kg

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

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- POL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2306D50 06-Jul-23

WO#:

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: LCS-75907 | SampT | ype: LC : | S | TestCode: EPA Method 8015M/D: Diesel Range Organics | | | | | | |
|-----------------------------|------------|------------------|-----------|---|----------|----------|-------------|------|----------|------|
| Client ID: LCSS | Batch | 1D: 75 9 | 007 | RunNo: 97879 | | | | | | |
| Prep Date: 6/29/2023 | Analysis D | ate: 6/3 | 30/2023 | 9 | SeqNo: 3 | 560506 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 46 | 10 | 50.00 | 0 | 92.7 | 61.9 | 130 | | | |
| Surr: DNOP | 4.5 | | 5.000 | | 90.7 | 69 | 147 | | | |

Sample ID: MB-75907 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Batch ID: 75907 Client ID: PBS RunNo: 97879 Prep Date: Analysis Date: 6/30/2023 SeqNo: 3560510 6/29/2023 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10

| Motor Oil Range Organics (MRO) | ND | 50 | | | | |
|--------------------------------|-----|----|-------|------|----|-----|
| Surr: DNOP | 9.6 | | 10.00 | 96.3 | 69 | 147 |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2306D50 06-Jul-23

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: Ics-75870 | SampType: LCS | TestCode: EPA Method | 8015D: Gasoline Range | | | | | |
|--|---------------------------|--|------------------------------|--|--|--|--|--|
| Client ID: LCSS | Batch ID: 75870 | RunNo: 97780 | | | | | | |
| Prep Date: 6/27/2023 | Analysis Date: 6/28/2023 | SeqNo: 3557429 | Units: mg/Kg | | | | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qual | | | | | |
| Gasoline Range Organics (GRO) Surr: BFB | 22 5.0 25.00 2000 1000 | 0 86.9 70 202 15 | 130 244 | | | | | |
| Sample ID: mb-75870 | SampType: MBLK | TestCode: EPA Method | 8015D: Gasoline Range | | | | | |
| Client ID: PBS | Batch ID: 75870 | RunNo: 97780 | | | | | | |
| Prep Date: 6/27/2023 | Analysis Date: 6/28/2023 | SeqNo: 3557431 | Units: mg/Kg | | | | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qual | | | | | |
| Gasoline Range Organics (GRO) Surr: BFB | ND 5.0 1000 1000 | 104 15 | 244 | | | | | |
| Sample ID: Ics-75893 | SampType: LCS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | |
| Client ID: LCSS | Batch ID: 75893 | RunNo: 97804 | | | | | | |
| Prep Date: 6/28/2023 | Analysis Date: 6/29/2023 | SeqNo: 3558099 | Units: mg/Kg | | | | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qual | | | | | |
| Gasoline Range Organics (GRO) | 23 5.0 25.00 | 0 91.3 70 | 130 | | | | | |
| Surr: BFB | 2100 1000 | 210 15 | 244 | | | | | |
| Sample ID: mb-75893 | SampType: MBLK | TestCode: EPA Method | 8015D: Gasoline Range | | | | | |
| Client ID: PBS | Batch ID: 75893 | RunNo: 97804 | | | | | | |
| Prep Date: 6/28/2023 | Analysis Date: 6/29/2023 | SeqNo: 3558102 | Units: mg/Kg | | | | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD RPDLimit Qual | | | | | |
| Gasoline Range Organics (GRO) Surr: BFB | ND 5.0 950 1000 | 94.6 15 | 244 | | | | | |
| Sample ID: 2306D50-025ams | SampType: MS | TestCode: EPA Method 8015D: Gasoline Range | | | | | | |
| Client ID: BH23-76 4.0' | Batch ID: 75893 | RunNo: 97804 | | | | | | |
| Prep Date: 6/28/2023 | Analysis Date: 6/29/2023 | SeqNo: 3558619 | Units: mg/Kg | | | | | |

Sample ID: 2306D50-025amsd

Gasoline Range Organics (GRO)

SampType: MSD

PQL

4.9

SPK value

24.27

970.9

TestCode: EPA Method 8015D: Gasoline Range

Client ID: Batch ID: 75893 BH23-76 4.0'

Result

2100

23

RunNo: 97804

Prep Date: 6/28/2023 Analysis Date: 6/29/2023 SeqNo: 3558620 Units: mg/Kg

LowLimit

70

15

HighLimit

130

244

%RPD

RPDLimit

Qual

Qual

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

Qualifiers:

Surr: BFB

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value

%REC

96.0

221

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit

SPK Ref Val

0

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Hall Environmental Analysis Laboratory, Inc.

Result

2000

20

PQL

4.8

WO#: **2306D50** *06-Jul-23*

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: 2306D50-025amsd | SampT | уре: МЅ | SD | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | | |
|-------------------------------|------------|-------------------|-----------|-------------|--------------|-----------|--------------|------------|----------|------|
| Client ID: BH23-76 4.0' | Batch | n ID: 75 8 | 893 | F | RunNo: 97804 | | | | | |
| Prep Date: 6/28/2023 | Analysis D | Date: 6/ 2 | 29/2023 | Ş | SeqNo: 3 | 558620 | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 23 | 4.9 | 24.30 | 0 | 92.7 | 70 | 130 | 3.34 | 20 | |
| Surr: BFB | 2100 | | 971.8 | | 218 | 15 | 244 | 0 | 0 | |
| Sample ID: Ics-75891 | Samp1 | ype: LC | s | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | | |
| Client ID: LCSS | Batch | n ID: 75 8 | 891 | F | RunNo: 97 | 7804 | | | | |
| Prep Date: 6/28/2023 | Analysis D | Date: 6/ 2 | 29/2023 | 5 | SeqNo: 3 | 558640 | Units: mg/Kg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 22 | 5.0 | 25.00 | 0 | 87.6 | 70 | 130 | | | |
| Surr: BFB | 2000 | | 1000 | | 205 | 15 | 244 | | | |
| Sample ID: mb-75891 | SampT | уре: МЕ | BLK | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | | |
| Client ID: PBS | Batch | n ID: 75 8 | 891 | F | RunNo: 97 | 7804 | | | | |
| Prep Date: 6/28/2023 | Analysis D | Date: 6/ 3 | 30/2023 | (| SeqNo: 3 | 558641 | Units: mg/k | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND | 5.0 | | | | | | | | |
| Surr: BFB | 940 | | 1000 | | 93.8 | 15 | 244 | | | |
| Sample ID: 2306D50-007ams | SampT | уре: МЅ | 6 | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | | |
| Client ID: BH23-69 0.0' | Batcl | n ID: 75 8 | 891 | F | RunNo: 97 | 7804 | | | | |
| Prep Date: 6/28/2023 | Analysis D | Date: 6/ 3 | 30/2023 | 5 | SeqNo: 3 | 558643 | Units: mg/k | (g | | |
| | | | | | • | | • | • | | |

| Sample ID: | 2306D50-007amsd | SampT | ype: MS | SD | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | | | | |
|----------------|------------------|------------|--------------------------|-----------|-------------|----------------------------|-----------|-------------|------------|--------------|------|--|--|
| Client ID: | BH23-69 0.0' | Batch | n ID: 75 8 | 391 | F | RunNo: 97 | 7804 | | | | | | |
| Prep Date: | 6/28/2023 | Analysis D | Analysis Date: 6/30/2023 | | | SeqNo: 3558644 Unit | | | | Units: mg/Kg | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| Gasoline Range | e Organics (GRO) | 19 | 4.7 | 23.67 | 0 | 82.0 | 70 | 130 | 2.60 | 20 | - | | |
| Surr: BFB | | 1900 | | 947.0 | | 197 | 15 | 244 | 0 | 0 | | | |

SPK value SPK Ref Val

23.79

951.5

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Gasoline Range Organics (GRO)

Surr: BFB

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value

%REC

83.8

206

LowLimit

70

15

HighLimit

130

244

%RPD

RPDLimit

Qual

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2306D50** *06-Jul-23*

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: LCS-75870 | SampType: LCS TestCode: EPA Me | | | | PA Method | 8021B: Volati | iles | | | | | |
|----------------------------|--------------------------------|--|-----------|-----------------------|-----------|---------------|-----------|--------------|----------|------|--|--|
| Client ID: LCSS | Batch | Batch ID: 75870 RunNo: 97780 | | | | | | | | | | |
| Prep Date: 6/27/2023 | Analysis D | Date: 6/2 | 28/2023 | SeqNo: 3557469 | | | | Units: mg/Kg | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | |
| Benzene | 0.84 | 0.025 | 1.000 | 0 | 84.0 | 70 | 130 | | | | | |
| Toluene | 0.86 | 0.050 | 1.000 | 0 | 85.8 | 70 | 130 | | | | | |
| Ethylbenzene | 0.86 | 0.050 | 1.000 | 0 | 86.4 | 70 | 130 | | | | | |
| Xylenes, Total | 2.6 | 0.10 | 3.000 | 0 | 86.9 | 70 | 130 | | | | | |
| Surr: 4-Bromofluorobenzene | 0.93 | | 1.000 | | 92.6 | 39.1 | 146 | | | | | |

| Sample ID: mb-75870 | SampT | уре: МЕ | BLK | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: PBS | Batch | n ID: 75 8 | 370 | F | RunNo: 97 | 7780 | | | | |
| Prep Date: 6/27/2023 | Analysis D | Date: 6/ 2 | 28/2023 | 5 | SeqNo: 3 | 557470 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.92 | | 1.000 | | 91.6 | 39.1 | 146 | | | |

| Sample ID: Ics-75893 | Samp1 | ype: LC | S | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|------------------|-----------|-------------|------------------|-----------|---------------|------|----------|------|
| Client ID: LCSS | Batcl | n ID: 758 | 393 | F | RunNo: 97 | 7804 | | | | |
| Prep Date: 6/28/2023 | Analysis D | oate: 6/2 | 29/2023 | 5 | SeqNo: 35 | 558106 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.82 | 0.025 | 1.000 | 0 | 82.3 | 70 | 130 | | | |
| Toluene | 0.84 | 0.050 | 1.000 | 0 | 84.1 | 70 | 130 | | | |
| Ethylbenzene | 0.85 | 0.050 | 1.000 | 0 | 84.8 | 70 | 130 | | | |
| Xylenes, Total | 2.5 | 0.10 | 3.000 | 0 | 84.9 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.97 | | 1.000 | | 96.8 | 39.1 | 146 | | | |

| Sample ID: mb-75893 | SampT | уре: МЕ | BLK | Tes | tCode: Ef | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: PBS | Batch | n ID: 75 8 | 393 | F | RunNo: 97 | 7804 | | | | |
| Prep Date: 6/28/2023 | Analysis D | Date: 6/ 2 | 29/2023 | 5 | SeqNo: 3 | 558107 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.95 | | 1.000 | | 95.2 | 39.1 | 146 | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2306D50**

06-Jul-23

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: 2306D50-026ams | Samp | Гуре: МЅ | } | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: BH23-77 0.0' | Batc | h ID: 75 8 | 393 | F | RunNo: 97 | 7804 | | | | |
| Prep Date: 6/28/2023 | Analysis [| Date: 6/2 | 29/2023 | 5 | SeqNo: 3 | 558661 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.87 | 0.023 | 0.9390 | 0 | 92.7 | 70 | 130 | | | |
| Toluene | 0.90 | 0.047 | 0.9390 | 0 | 96.0 | 70 | 130 | | | |
| Ethylbenzene | 0.92 | 0.047 | 0.9390 | 0 | 98.2 | 70 | 130 | | | |
| Xylenes, Total | 2.8 | 0.094 | 2.817 | 0 | 98.4 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.93 | | 0.9390 | | 99.0 | 39.1 | 146 | | | |

| Sample ID: 2306D50-026amsd | SampT | ype: MS | D | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: BH23-77 0.0' | Batch | n ID: 758 | 393 | F | RunNo: 97 | 7804 | | | | |
| Prep Date: 6/28/2023 | Analysis D | ate: 6/2 | 29/2023 | 9 | SeqNo: 3 | 558662 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.90 | 0.024 | 0.9416 | 0 | 95.3 | 70 | 130 | 3.11 | 20 | |
| Toluene | 0.93 | 0.047 | 0.9416 | 0 | 98.3 | 70 | 130 | 2.64 | 20 | |
| Ethylbenzene | 0.95 | 0.047 | 0.9416 | 0 | 101 | 70 | 130 | 3.07 | 20 | |
| Xylenes, Total | 2.9 | 0.094 | 2.825 | 0 | 101 | 70 | 130 | 3.31 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.92 | | 0.9416 | | 98.0 | 39.1 | 146 | 0 | 0 | |

| Sample ID: Ics-75891 | SampT | ype: LC : | S | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|------------------|------------|-------------|------------------|-----------|---------------|------|----------|------|
| Client ID: LCSS | Batcl | n ID: 758 | 391 | F | RunNo: 97 | 7804 | | | | |
| Prep Date: 6/28/2023 | Analysis D | Date: 6/3 | 30/2023 | 5 | SeqNo: 35 | 558681 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.92 | 0.025 | 1.000 | 0 | 92.0 | 70 | 130 | | | |
| Toluene | 0.93 | 0.050 | 1.000 | 0 | 93.4 | 70 | 130 | | | |
| Ethylbenzene | 0.94 | 0.050 | 1.000 | 0 | 93.5 | 70 | 130 | | | |
| Xylenes, Total | 2.8 | 0.10 | 3.000 | 0 | 93.5 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.93 | | 1.000 | | 92.9 | 39.1 | 146 | | | |

| Sample ID: mb-75891 | Samp | уре: МЕ | BLK | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: PBS | Batcl | n ID: 758 | 391 | F | RunNo: 97 | 7804 | | | | |
| Prep Date: 6/28/2023 | Analysis [| Date: 6/ 3 | 30/2023 | 9 | SeqNo: 3 | 558682 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.92 | | 1.000 | | 92.4 | 39.1 | 146 | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2306D50**

06-Jul-23

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: 2306D50-008ams | Samp ⁻ | Туре: МЅ | 3 | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|-------------------|-------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: BH23-69 2.0' | Batc | h ID: 75 8 | 391 | F | RunNo: 97 | 7804 | | | | |
| Prep Date: 6/28/2023 | Analysis [| Date: 6/ 3 | 30/2023 | (| SeqNo: 3 | 558685 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.92 | 0.024 | 0.9709 | 0 | 94.5 | 70 | 130 | | | |
| Toluene | 0.94 | 0.049 | 0.9709 | 0 | 97.1 | 70 | 130 | | | |
| Ethylbenzene | 0.95 | 0.049 | 0.9709 | 0 | 97.5 | 70 | 130 | | | |
| Xylenes, Total | 2.8 | 0.097 | 2.913 | 0 | 97.4 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.90 | | 0.9709 | | 93.2 | 39.1 | 146 | | | |

| Sample ID: 2306D50-008ams | d Samp | Туре: М | SD | Tes | tCode: El | PA Method | 8021B: Volati | iles | | |
|----------------------------|----------|-----------------|-----------|-------------|-----------|-----------|---------------|-------|----------|------|
| Client ID: BH23-69 2.0' | Bato | h ID: 758 | 391 | F | RunNo: 9 | 7804 | | | | |
| Prep Date: 6/28/2023 | Analysis | Date: 6/ | 30/2023 | (| SeqNo: 3 | 558686 | Units: mg/K | (g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.91 | 0.024 | 0.9728 | 0 | 93.2 | 70 | 130 | 1.27 | 20 | |
| Toluene | 0.93 | 0.049 | 0.9728 | 0 | 95.9 | 70 | 130 | 1.03 | 20 | |
| Ethylbenzene | 0.94 | 0.049 | 0.9728 | 0 | 96.4 | 70 | 130 | 0.926 | 20 | |
| Xylenes, Total | 2.8 | 0.097 | 2.918 | 0 | 96.8 | 70 | 130 | 0.420 | 20 | |
| Surr: 4-Bromofluorobenzene | 0.91 | | 0.9728 | | 93.4 | 39.1 | 146 | 0 | 0 | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque. NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Released to Imaging: 4/23/2025 2:19:30 PM

| | | | | | **** | 7.00 | | |
|--|----------------|-----------------|-----------------|--------------|----------------|----------------|--------------------------|---------------|
| Client Name: D | evon Enerç | gy | Work | Order Numb | per: 2306D50 | | RcptNo: 1 | |
| Received By: | Tracy Casa | nrrubias | 6/27/20 | 23 7:35:00 A | λM | | | |
| - | Desiree Do | | 6/27/20 | 23 8:57:07 A | λM | THE | | |
| | | 27/2 | | | | | | |
| Chain of Custo | ody | | | | | | | |
| 1. Is Chain of Cust | tody comple | ete? | | | Yes 🗌 | No 🗹 | Not Present | |
| 2. How was the sa | ımple delive | ered? | | | <u>Courier</u> | | | |
| <u>Log In</u> | | | | | · . | No [7] | na 🗀 | |
| Was an attempt | made to co | ool the sampl | les? | | Yes 🗹 | No 🗌 | NA L | |
| 4. Were all sample | s received | at a tempera | ture of >0° C | to 6.0°C | Yes 🗹 | No 🗌 | NA 🗆 | |
| 5. Sample(s) in pro | oper contair | ner(s)? | | | Yes 🗹 | No 🗌 | | |
| 6. Sufficient sample | e volume fo | or indicated te | est(s)? | | Yes 🗹 | No 🗌 | | |
| 7. Are samples (ex | cept VOA a | and ONG) pro | perly preserve | ed? | Yes 🗹 | No 🗌 | | |
| 8. Was preservativ | e added to | bottles? | | | Yes 🗌 | No 🔽 | NA 🗆 | |
| 9. Received at leas | st 1 vial with | headspace | <1/4" for AQ \ | OA? | Yes 🗌 | No 🗌 | NA 🗹 f | |
| 10. Were any samp | le containe | rs received b | roken? | | Yes | No 🗹 | # of preserved | |
| 11. Does paperwork | match bott | tle labels? | | | Yes 🗹 | No 🗆 | bottles checked for pH: | |
| (Note discrepand | | | | | 🖼 | [7] | /<2 or >12 Adjuste∕a? | unless noted) |
| 12. Are matrices con | - | | = | | Yes ✔ Yes ✔ | No ∐ No □ | 7.0,000 | |
| 13. Is it clear what a 14. Were all holding | | | ? | | Yes ✔ Yes ✔ | No 🗆 | Checked by CY | 1 06/7 |
| (If no, notify cus | | | | | 100 | - 1 | | |
| Special Handlin | ıg (if app | licable) | | | | | ι | |
| 15. Was client notif | ied of all dis | screpancies v | with this order | ? | Yes 🗌 | No 🗆 | NA 🗹 | |
| Person N | otified: | | | Date: | | | | |
| By Whom | | | | Via: | eMail [|] Phone [] Fax | ☐ In Person | |
| Regarding | 5 | | | | | | | |
| Client Ins | | | | | | | | |
| 16. Additional rema | | t provided s= | COC DAD | פפודפו | | | | |
| 17. Cooler Inform | | r broviaea on | COCDAD 6 | 0121123 | | | | |
| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By | | |
| | 5.5 | Good | Not Present | Morty | | | | |

| | Chair | J-10- | Chain-or-Custody Record | Sord | I urn-Around | d Ime: | | | | | | | | | | |
|-----------|------------------|------------------|-----------------------------|----------------|--|--|--|---|----------------|-------------------|-------------------|--------|----------------------------|--------|------------------|---------|
| Client: | t: | Ĉ | Doras | | \ | | | | _ | HALL ENVIRONMENT | | > | RO | Σ | ENTAL | _ |
| | | 5 | 11 0 1 | | Project Name: | d Kush 7 | n 21 VAV | | | ANALYSIS | ΓYS | IS | LAB | SOR | ABORATORY | _ |
| | | Tireor | 11:01 10 | = | 7 | | 11 4111 170 | de la constant de la | | www.h | allenvii | onuo | www.hallenvironmental.com | E | | |
| Maill | Malling Address: | .ss: | | | Collon | Lina, Uni | 9/2 2/-/ | 490 | Haw | 4901 Hawkins NF | - Albi | Dielo. | Albuquerque NM 87109 | # 8710 | G | |
| | | | | À | Project #: | Project #: | 6.6 |) F | 505.2 | 75 202 | | | ביילים מיילים מיילים | 44.01 | o. | |
| Phone # | e #: | | | | 7 | 86-004 | 3 | | C-COC | 1el. 505-545-5975 | len | is Re | rax 505-345-410/ | 410/ | | |
| email | email or Fax#: | | | | Project Man | ader: | | _ | L | | Þι | | (162) | - | Para I | Į. |
| QA/QC | QA/QC Package: | . | | | | Kent Stillys | | NRC | S, | S | os ' | - | uəs | - | | |
| □ St | □ Standard | | ☐ Level 4 (Full Validation) | /alidation) | | • | | V / O | | WIS | ^⁵ Od | | dAV | | | |
| Accre | Accreditation: | □ Az Col□ | ☐ Az Compliance ☐ Other | | Sampler: | A/A | | 8MT 90 \ | S808 (1.4 | 0728 | ' ^z ON | | .eseu | | | |
| □ EDD (Ty | EDD (Type) | | | | # of Coolers: | SD - | ON ON ON | SRC | | | | AO, | | | | |
| | | | | | Cooler Tem | O(including CF): 5. | Cooler Temp(Including CF): 5.8 - 0.3-55 (°C) | 5D(C | | | ON ' | | | 1 | 11 | |
| - | i | | | | Container | Preservative | | 106/ | ey ræ eM) 8 | √d e⊢ 8 AЯ | F, Br | OV) 0 | | | 2 E | |
| Date | Time | <u>옥</u> | Sample Name | | - | Type | 23060SD | (F) | | | CV) | _ | | | | |
| 077-73 | 2000 | 学 | RH23-66 | 0.0 | 20% | 155 | 100- |)- | | |) - | 1 | | | 100 | |
| _ | 0750 | | 181423-66 | 2.0 | _ | | - 003 | | | | | 1 | 1 | | | I |
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| | 0550 | | B+23-67 | 2.0 | | | 700- | | | | _ | - | | | | \perp |
| | 0460 | | 8423-68 | 0.0 | | | - 005 | | | | E | | | | | 1 |
| | 0360 | | 1212-68 | 2,0 | | | 900- | | | | | + | | | | I |
| | 1000 | | 8423-69 | 0.0 | | | F00- | | | | | + | | | 100 | I |
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| | 0201 | | BY23-70 | 0.0 | | | 1000 | | | | - | | | + | 12 | I |
| | 1030 | | ON-23-70 | 2.0 | | | 010 | | | - | | | 2 | | | I |
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| | If necessary, | samples sub- | Environ | tal mawharanan | mental may be subcontracted to other acco | discharged by liborate | This was the state of the | - | | | | | | | | _ |

redit "laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. Released to Imaging: 4/23/2025 2:19:30 PM

| Chain-of-Custody Record | | | HALL ENVIRONMENTAL | MENTAL |
|--|-------------------------------|------------------------|--|----------------|
| Client: | , | d Rush 5 Day | ANALYSIS LABORATORY | SKATORY |
| Direct Bill | Project Name: | 1-10 (40 | www.hallenvironmental.com | |
| Mailing Address: | Cotton trans Unit 1 16 010 | 11000 | 4901 Hawkins NE - Albuquerque, NM 87109 | 37109 |
| | Project #: 73 E-02423 | Υ. | Tel. 505-345-3975 Fax 505-345-4107 | 07 |
| Phone #: | | - Jako | Analysis Request | |
| email or Fax#: | Project Manager: / / / // | 11/1 | (O) | |
| QA/QC Package: | Kert | Shallings | s'ac sMi | 7. |
| ☐ Standard ☐ Level 4 (Full Validation) | | | OF 2008 | |
| Accreditation: Az Compliance | P | A CONTRACTOR OF STREET | (1.1) (1.1) (1.1) | |
| □ NELAC □ Other | On Ice: 🍞 Yes | □ No mact | OS 50.40 OS | |
| □ EDD (Type) | 1 | | D)(G) Joint Color | |
| | Cooler Temp(including CF): 5. | 8-0.3:55 (0) | oy 8 Moth | |
| | Container Preservative | HEAL No. | 181 PR ARC (N. 1918) PR | |
| Date Time Matrix Sample Name | # | 7.500050 | 85 87 86 80 80 | |
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| J.C 67-23-73 3.C | | >10- | | |
| 1130 RY23-73 4.0 | | - DIG | | - James |
| | | £10- | | |
| 1150 RM23-73 3.C | | -018 | | |
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| Date: Time: Relinquished by: | Received by: Via: | Date Time | Remarks: // // // // | |
| | OMMMMM | 9 | CC: New 218/11/2 | |
| Date: Time: Relinquished by: | Received by: Via: Com | C Date Time | | 1/4/47 |
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Released to Imaging: 4/23/2025 2:19:30 PM

| | HALL ENVIRONMENTAL | | 4901 Hawk | | Analysis | *C |)*' 20 W2 :B,2 |) OS | 7 DF() DF(| O8 8/8 406 70 70 8 | (GF) | ethodel ethodel Met r, Me r, MO NO) | HEAL NO. CRA 80 (W. CR | 85 B) B) EI EI EI EI | 5-12 | 0 2 2 | 200 | 760, | 025 | -026 | £20 | 0.28 | -029 | 0.30 | | Time Remarks: | ex Carloran Sellings | Г | |
|-------------------------|-----------------------|-------------|------------------------|-------|-----------|------------------|----------------------|--|---|-----------------------------------|---------------|--|--|--|----------------------------|--------------------|------------------|------------------|------|------------------|-----|-------------------|----------------------|--------------------|-------|------------------------------|----------------------|-------------------------------|--|
| Turn-Around Time: | Standard C Rush 5 Day | | Colon Now Mit 1-12 CTB | 0.764 | 256-06725 | Project Manager: | Kent Stellings | | Sampler: 166 | V Yes □ No | # of Coolers: | Cooler Temp(Including CF): 5.6-0.3 | Preservative | and # Type | 402 1CE -021 | 1 02 | 001 | 0, | 20 ' | 20- | 0 | 0 - | 01 | ۸ ۸ | 10 mm | Received by: Via: Date | Church " 2 3 | Received by: Via: (Count Date | |
| Chain-of-Custody Record | Client: | Direct Bill | ,,,,, | | Phone #: | email or Fax#: | ide: | ☐ Standard ☐ Level 4 (Full Validation) | ☐ Az Compliance | □ NELAC □ Other | | | O Company | I'me Matrix Sample Name | 3523 1100 Soil BAZB-75 0.0 | 1110 1 8423-75 2,0 | 1(20 BA23-76 0,0 | 1/30 RA23-76 7.0 | , | [150 BW23-77 6.0 | | 1210 18423-77 4.0 | 1 (220 1 BY23-78 6,0 | 1230 V ByB3-78 2.0 | | Date: Time: Relinquished by: | | Date: Time: Relinquished by: | |

other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. Released to Imaging: 4/23/2025 2:19:30 PM



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

July 06, 2023

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336

FAX:

RE: Cotton Draw Unit 1 12 CTB OrderNo.: 2306E09

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 13 sample(s) on 6/28/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-79 0.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/26/2023 10:00:00 AM

 Lab ID:
 2306E09-001
 Matrix: SOIL
 Received Date: 6/28/2023 7:15:00 AM

| | | THE Qu | al Units | DF | Date Analyzed |
|--|---------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OF | RGANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 8.7 | mg/Kg | 1 | 6/30/2023 6:47:21 PM |
| Motor Oil Range Organics (MRO) | ND | 44 | mg/Kg | 1 | 6/30/2023 6:47:21 PM |
| Surr: DNOP | 96.7 | 69-147 | %Rec | 1 | 6/30/2023 6:47:21 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 6/29/2023 9:33:00 PM |
| Surr: BFB | 93.9 | 15-244 | %Rec | 1 | 6/29/2023 9:33:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 6/29/2023 9:33:00 PM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 6/29/2023 9:33:00 PM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 6/29/2023 9:33:00 PM |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 6/29/2023 9:33:00 PM |
| Surr: 4-Bromofluorobenzene | 91.2 | 39.1-146 | %Rec | 1 | 6/29/2023 9:33:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JMT |
| Chloride | ND | 60 | mg/Kg | 20 | 7/3/2023 12:33:52 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 19

Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-79 2.0'

Project: Cotton Draw Unit 1 12 CTB **Collection Date:** 6/26/2023 10:10:00 AM 2306E09-002 Lab ID: Matrix: SOIL **Received Date:** 6/28/2023 7:15:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.3 | mg/Kg | 1 | 6/30/2023 6:58:21 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 6/30/2023 6:58:21 PM |
| Surr: DNOP | 120 | 69-147 | %Rec | 1 | 6/30/2023 6:58:21 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.7 | mg/Kg | 1 | 6/29/2023 9:55:00 PM |
| Surr: BFB | 92.3 | 15-244 | %Rec | 1 | 6/29/2023 9:55:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 6/29/2023 9:55:00 PM |
| Toluene | ND | 0.047 | mg/Kg | 1 | 6/29/2023 9:55:00 PM |
| Ethylbenzene | ND | 0.047 | mg/Kg | 1 | 6/29/2023 9:55:00 PM |
| Xylenes, Total | ND | 0.094 | mg/Kg | 1 | 6/29/2023 9:55:00 PM |
| Surr: 4-Bromofluorobenzene | 92.5 | 39.1-146 | %Rec | 1 | 6/29/2023 9:55:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JMT |
| Chloride | 100 | 60 | mg/Kg | 20 | 7/3/2023 12:46:17 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Ε
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL

Reporting Limit

Page 2 of 19

Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-80 0.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/26/2023 10:20:00 AM

 Lab ID:
 2306E09-003
 Matrix: SOIL
 Received Date: 6/28/2023 7:15:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed |
|------------------------------------|----------|----------|------|-------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE (| ORGANICS | | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | 3000 | 98 | | mg/Kg | 10 | 6/30/2023 1:37:12 PM |
| Motor Oil Range Organics (MRO) | 1700 | 490 | | mg/Kg | 10 | 6/30/2023 1:37:12 PM |
| Surr: DNOP | 0 | 69-147 | S | %Rec | 10 | 6/30/2023 1:37:12 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.6 | | mg/Kg | 1 | 6/29/2023 10:17:00 PM |
| Surr: BFB | 92.6 | 15-244 | | %Rec | 1 | 6/29/2023 10:17:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | | Analyst: KMN |
| Benzene | ND | 0.023 | | mg/Kg | 1 | 6/29/2023 10:17:00 PM |
| Toluene | ND | 0.046 | | mg/Kg | 1 | 6/29/2023 10:17:00 PM |
| Ethylbenzene | ND | 0.046 | | mg/Kg | 1 | 6/29/2023 10:17:00 PM |
| Xylenes, Total | ND | 0.092 | | mg/Kg | 1 | 6/29/2023 10:17:00 PM |
| Surr: 4-Bromofluorobenzene | 91.4 | 39.1-146 | | %Rec | 1 | 6/29/2023 10:17:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | | Analyst: JMT |
| Chloride | 61 | 60 | | mg/Kg | 20 | 7/3/2023 12:58:42 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ple pH Not In Range Page 3 of 19

Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-80 2.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/26/2023 10:30:00 AM

 Lab ID:
 2306E09-004
 Matrix: SOIL
 Received Date: 6/28/2023 7:15:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.2 | mg/Kg | 1 | 6/30/2023 7:09:24 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 6/30/2023 7:09:24 PM |
| Surr: DNOP | 89.5 | 69-147 | %Rec | 1 | 6/30/2023 7:09:24 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 6/29/2023 10:39:00 PM |
| Surr: BFB | 93.1 | 15-244 | %Rec | 1 | 6/29/2023 10:39:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 6/29/2023 10:39:00 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 6/29/2023 10:39:00 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 6/29/2023 10:39:00 PM |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 6/29/2023 10:39:00 PM |
| Surr: 4-Bromofluorobenzene | 92.0 | 39.1-146 | %Rec | 1 | 6/29/2023 10:39:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JMT |
| Chloride | 92 | 59 | mg/Kg | 20 | 7/3/2023 1:11:06 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-80 4.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/26/2023 10:40:00 AM

 Lab ID:
 2306E09-005
 Matrix: SOIL
 Received Date: 6/28/2023 7:15:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|---------------------------------------|--------|----------|---------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.5 | mg/Kg | 1 | 6/30/2023 7:20:24 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 6/30/2023 7:20:24 PM |
| Surr: DNOP | 92.0 | 69-147 | %Rec | 1 | 6/30/2023 7:20:24 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 6/29/2023 11:22:00 PM |
| Surr: BFB | 94.8 | 15-244 | %Rec | 1 | 6/29/2023 11:22:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 6/29/2023 11:22:00 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 6/29/2023 11:22:00 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 6/29/2023 11:22:00 PM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 6/29/2023 11:22:00 PM |
| Surr: 4-Bromofluorobenzene | 92.8 | 39.1-146 | %Rec | 1 | 6/29/2023 11:22:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JMT |
| Chloride | 210 | 60 | mg/Kg | 20 | 7/3/2023 1:23:31 PM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-81 0.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/26/2023 10:50:00 AM

 Lab ID:
 2306E09-006
 Matrix: SOIL
 Received Date: 6/28/2023 7:15:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.3 | mg/Kg | 1 | 6/30/2023 7:31:21 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 6/30/2023 7:31:21 PM |
| Surr: DNOP | 90.8 | 69-147 | %Rec | 1 | 6/30/2023 7:31:21 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 6/29/2023 5:15:23 PM |
| Surr: BFB | 112 | 15-244 | %Rec | 1 | 6/29/2023 5:15:23 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 6/29/2023 5:15:23 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 6/29/2023 5:15:23 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 6/29/2023 5:15:23 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 6/29/2023 5:15:23 PM |
| Surr: 4-Bromofluorobenzene | 93.5 | 39.1-146 | %Rec | 1 | 6/29/2023 5:15:23 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JMT |
| Chloride | ND | 60 | mg/Kg | 20 | 7/3/2023 1:35:56 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-81 2.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/26/2023 11:00:00 AM

 Lab ID:
 2306E09-007
 Matrix: SOIL
 Received Date: 6/28/2023 7:15:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 6/30/2023 7:42:20 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 6/30/2023 7:42:20 PM |
| Surr: DNOP | 93.1 | 69-147 | %Rec | 1 | 6/30/2023 7:42:20 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 6/29/2023 5:39:40 PM |
| Surr: BFB | 111 | 15-244 | %Rec | 1 | 6/29/2023 5:39:40 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 6/29/2023 5:39:40 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 6/29/2023 5:39:40 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 6/29/2023 5:39:40 PM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 6/29/2023 5:39:40 PM |
| Surr: 4-Bromofluorobenzene | 91.9 | 39.1-146 | %Rec | 1 | 6/29/2023 5:39:40 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JMT |
| Chloride | ND | 60 | mg/Kg | 20 | 7/3/2023 1:48:21 PM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 7 of 19

Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-82 0.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/26/2023 11:10:00 AM

 Lab ID:
 2306E09-008
 Matrix: SOIL
 Received Date: 6/28/2023 7:15:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.1 | mg/Kg | 1 | 6/30/2023 7:53:16 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 6/30/2023 7:53:16 PM |
| Surr: DNOP | 101 | 69-147 | %Rec | 1 | 6/30/2023 7:53:16 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 6/29/2023 6:04:04 PM |
| Surr: BFB | 109 | 15-244 | %Rec | 1 | 6/29/2023 6:04:04 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.024 | mg/Kg | 1 | 6/29/2023 6:04:04 PM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 6/29/2023 6:04:04 PM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 6/29/2023 6:04:04 PM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 6/29/2023 6:04:04 PM |
| Surr: 4-Bromofluorobenzene | 90.9 | 39.1-146 | %Rec | 1 | 6/29/2023 6:04:04 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JMT |
| Chloride | ND | 60 | mg/Kg | 20 | 7/3/2023 2:00:46 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 19

Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-82 2.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/26/2023 11:20:00 AM

 Lab ID:
 2306E09-009
 Matrix: SOIL
 Received Date: 6/28/2023 7:15:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | SANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.2 | mg/Kg | 1 | 6/30/2023 8:14:58 PM |
| Motor Oil Range Organics (MRO) | ND | 46 | mg/Kg | 1 | 6/30/2023 8:14:58 PM |
| Surr: DNOP | 96.1 | 69-147 | %Rec | 1 | 6/30/2023 8:14:58 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 6/29/2023 6:28:30 PM |
| Surr: BFB | 111 | 15-244 | %Rec | 1 | 6/29/2023 6:28:30 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 6/29/2023 6:28:30 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 6/29/2023 6:28:30 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 6/29/2023 6:28:30 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 6/29/2023 6:28:30 PM |
| Surr: 4-Bromofluorobenzene | 94.0 | 39.1-146 | %Rec | 1 | 6/29/2023 6:28:30 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JMT |
| Chloride | ND | 61 | mg/Kg | 20 | 7/3/2023 2:13:10 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

opering Limit Page 9 of 19

Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-83 0.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/26/2023 11:30:00 AM

 Lab ID:
 2306E09-010
 Matrix: SOIL
 Received Date: 6/28/2023 7:15:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 6/30/2023 8:25:55 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 6/30/2023 8:25:55 PM Surr: DNOP 94.7 69-147 %Rec 1 6/30/2023 8:25:55 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 6/29/2023 6:52:46 PM 5.0 mg/Kg 1 Surr: BFB 108 15-244 %Rec 1 6/29/2023 6:52:46 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 6/29/2023 6:52:46 PM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 6/29/2023 6:52:46 PM Ethylbenzene ND 0.050 mg/Kg 1 6/29/2023 6:52:46 PM Xylenes, Total ND mg/Kg 1 6/29/2023 6:52:46 PM 0.099 Surr: 4-Bromofluorobenzene 91.7 39.1-146 %Rec 1 6/29/2023 6:52:46 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT mg/Kg Chloride 7/3/2023 2:50:25 PM 110 60 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-83 2.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/26/2023 11:40:00 AM

 Lab ID:
 2306E09-011
 Matrix: SOIL
 Received Date: 6/28/2023 7:15:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.4 | mg/Kg | 1 | 6/30/2023 8:36:48 PM |
| Motor Oil Range Organics (MRO) | ND | 47 | mg/Kg | 1 | 6/30/2023 8:36:48 PM |
| Surr: DNOP | 109 | 69-147 | %Rec | 1 | 6/30/2023 8:36:48 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 6/29/2023 7:16:57 PM |
| Surr: BFB | 108 | 15-244 | %Rec | 1 | 6/29/2023 7:16:57 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 6/29/2023 7:16:57 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 6/29/2023 7:16:57 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 6/29/2023 7:16:57 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 6/29/2023 7:16:57 PM |
| Surr: 4-Bromofluorobenzene | 91.5 | 39.1-146 | %Rec | 1 | 6/29/2023 7:16:57 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JMT |
| Chloride | ND | 60 | mg/Kg | 20 | 7/3/2023 3:02:49 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-84 0.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/26/2023 11:50:00 AM

 Lab ID:
 2306E09-012
 Matrix: SOIL
 Received Date: 6/28/2023 7:15:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 6/30/2023 8:47:40 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 6/30/2023 8:47:40 PM Surr: DNOP 93.8 69-147 %Rec 1 6/30/2023 8:47:40 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 6/29/2023 7:41:06 PM 4.8 mg/Kg 1 Surr: BFB 110 15-244 %Rec 1 6/29/2023 7:41:06 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 6/29/2023 7:41:06 PM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 6/29/2023 7:41:06 PM Ethylbenzene ND 0.048 mg/Kg 1 6/29/2023 7:41:06 PM Xylenes, Total ND 0.096 mg/Kg 1 6/29/2023 7:41:06 PM Surr: 4-Bromofluorobenzene 93.2 39.1-146 %Rec 1 6/29/2023 7:41:06 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT mg/Kg Chloride 7/3/2023 3:15:14 PM ND 61 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 7/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-84 2.0'

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/26/2023 12:00:00 PM

 Lab ID:
 2306E09-013
 Matrix: SOIL
 Received Date: 6/28/2023 7:15:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.7 | mg/Kg | 1 | 6/30/2023 8:58:31 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 6/30/2023 8:58:31 PM |
| Surr: DNOP | 93.8 | 69-147 | %Rec | 1 | 6/30/2023 8:58:31 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: JJP |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 6/29/2023 8:05:09 PM |
| Surr: BFB | 107 | 15-244 | %Rec | 1 | 6/29/2023 8:05:09 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: JJP |
| Benzene | ND | 0.025 | mg/Kg | 1 | 6/29/2023 8:05:09 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 6/29/2023 8:05:09 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 6/29/2023 8:05:09 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 6/29/2023 8:05:09 PM |
| Surr: 4-Bromofluorobenzene | 91.3 | 39.1-146 | %Rec | 1 | 6/29/2023 8:05:09 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: JMT |
| Chloride | 61 | 59 | mg/Kg | 20 | 7/3/2023 3:27:39 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2306E09**

06-Jul-23

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

Sample ID: MB-75962 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 75962 RunNo: 97896

Prep Date: 7/3/2023 Analysis Date: 7/3/2023 SeqNo: 3561639 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-75962 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 75962 RunNo: 97896

Prep Date: 7/3/2023 Analysis Date: 7/3/2023 SeqNo: 3561640 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.2 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2306E09**

06-Jul-23

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

| Project: Cotton L | raw Unit I | 1 12 CT | В | | | | | | | | |
|--------------------------------|----------------|-------------------|-----------|-------------|-----------|-----------|--------------|-----------|----------|------|--|
| Sample ID: 2306E09-006AMS | Samp1 | Гуре: МЅ | 5 | Tes | tCode: EF | PA Method | 8015M/D: Die | sel Range | Organics | | |
| Client ID: BH23-81 0.0' | Batch | h ID: 75 9 | 911 | F | RunNo: 97 | 7879 | | | | | |
| Prep Date: 6/29/2023 | Analysis D | Date: 6/ 3 | 30/2023 | 5 | SeqNo: 3 | 560470 | Units: mg/K | (g | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Diesel Range Organics (DRO) | 42 | 9.9 | 49.65 | 0 | 83.8 | 54.2 | 135 | | | | |
| Surr: DNOP | 4.5 | | 4.965 | | 91.1 | 69 | 147 | | | | |
| Sample ID: 2306E09-006AMS | D Samp1 | Гуре: МЅ | SD | Tes | tCode: EF | PA Method | 8015M/D: Die | sel Range | Organics | | |
| Client ID: BH23-81 0.0' | Batch | h ID: 75 9 | 911 | F | RunNo: 97 | 7879 | 79 | | | | |
| Prep Date: 6/29/2023 | Analysis D | Date: 6/ 3 | 30/2023 | Ş | SeqNo: 3 | 560471 | Units: mg/K | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Diesel Range Organics (DRO) | 37 | 9.4 | 46.86 | 0 | 78.9 | 54.2 | 135 | 11.8 | 29.2 | | |
| Surr: DNOP | 4.2 | | 4.686 | | 90.5 | 69 | 147 | 0 | 0 | | |
| Sample ID: LCS-75907 | SampT | Гуре: LC | s | Tes | tCode: EF | PA Method | 8015M/D: Die | sel Range | Organics | | |
| Client ID: LCSS | Batch | h ID: 75 9 | 907 | F | RunNo: 97 | 7879 | | | | | |
| Prep Date: 6/29/2023 | Analysis D | Date: 6/ 3 | 30/2023 | 5 | SeqNo: 3 | 560506 | Units: mg/K | ζg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Diesel Range Organics (DRO) | 46 | 10 | 50.00 | 0 | 92.7 | 61.9 | 130 | | | | |
| Surr: DNOP | 4.5 | | 5.000 | | 90.7 | 69 | 147 | | | | |
| Sample ID: LCS-75911 | SampT | Гуре: LC | s | Tes | tCode: EF | PA Method | 8015M/D: Die | sel Range | Organics | | |
| Client ID: LCSS | Batch | h ID: 75 9 | 911 | F | RunNo: 97 | 7879 | | | | | |
| Prep Date: 6/29/2023 | Analysis D | Date: 6/ 3 | 30/2023 | 5 | SeqNo: 3 | 560507 | Units: mg/K | ζg | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Diesel Range Organics (DRO) | 51 | 10 | 50.00 | 0 | 102 | 61.9 | 130 | | | | |
| Surr: DNOP | 4.9 | | 5.000 | | 98.1 | 69 | 147 | | | | |
| Sample ID: MB-75907 | SampT | Гуре: МЕ | BLK | Tes | tCode: EF | PA Method | 8015M/D: Die | sel Range | Organics | · | |
| Client ID: PBS | Batch | h ID: 75 9 | 907 | F | RunNo: 97 | 7879 | | | | | |
| Prep Date: 6/29/2023 | Analysis D | Date: 6/ 3 | 30/2023 | 5 | SeqNo: 3 | 560510 | Units: mg/K | (g | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Diesel Range Organics (DRO) | ND | 10 | | | | | | | | | |
| Motor Oil Range Organics (MRO) | ND | 50 | | | | | | | | | |
| Surr: DNOP | 9.6 | | 10.00 | | 96.3 | 69 | 147 | | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2306E09 06-Jul-23

WO#:

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

Sample ID: MB-75911 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 75911 RunNo: 97879 Prep Date: 6/29/2023 Analysis Date: 6/30/2023 SeqNo: 3560511 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Diesel Range Organics (DRO) ND 10 ND 50

Motor Oil Range Organics (MRO)

Surr: DNOP 9.5 10.00 95.2 69 147

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2306E09** *06-Jul-23*

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

| Oncominate ID. 1 | | | | | | | | | |
|--|---|---|------------------------------|--|---|--|------------|----------|------|
| Sample ID: Ics-75893 | SampType: L | CS | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | ! | |
| Client ID: LCSS | Batch ID: 7 | 5893 | F | RunNo: 97 | 7804 | | | | |
| Prep Date: 6/28/2023 | Analysis Date: 6 | 6/29/2023 | 9 | SeqNo: 35 | 558099 | Units: mg/K | (g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 23 5.0 | 25.00 | 0 | 91.3 | 70 | 130 | | | |
| Surr: BFB | 2100 | 1000 | | 210 | 15 | 244 | | | |
| Sample ID: mb-75893 | SampType: N | BLK | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | ı | |
| Client ID: PBS | Batch ID: 7 | 5893 | F | RunNo: 9 7 | 7804 | | | | |
| Prep Date: 6/28/2023 | Analysis Date: 6 | 6/29/2023 | 9 | SeqNo: 35 | 558102 | Units: mg/K | (g | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND 5.0 |) | | | | | | | |
| Surr: BFB | 950 | 1000 | | 94.6 | 15 | 244 | | | |
| Sample ID: mb-75895 | SampType: N | BLK | Tes | tCode: EF | PA Method | 8015D: Gaso | line Range | ! | |
| Client ID: PBS | Batch ID: 7 | 5895 | F | RunNo: 97 | 7810 | | | | |
| Prep Date: 6/28/2023 | Analysis Date: 6 | 6/29/2023 | 9 | SeqNo: 35 | 558395 | Units: mg/K | (g | | |
| | | | | | | | | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| • | Result PQL ND 5.0 | | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| • | | | SPK Ref Val | %REC 110 | LowLimit 15 | HighLimit 244 | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND 5.0 | 1000 | | 110 | 15 | | | | Qual |
| Gasoline Range Organics (GRO) Surr: BFB | ND 5.0 | 1000 | Tes | 110 | 15 PA Method | 244 | | | Qual |
| Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2306e09-006ams | ND 5.0 1100 SampType: N | 1000 1S 5895 | Tes F | 110 | 15 PA Method 7810 | 244 | line Range | | Qual |
| Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2306e09-006ams Client ID: BH23-81 0.0' | ND 5.0 1100 SampType: N Batch ID: 7 | 1000 IS 5895 5/29/2023 | Tes F | 110 stCode: EF RunNo: 97 SeqNo: 35 | 15 PA Method 7810 | 244 8015D: Gaso | line Range | | Qual |
| Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2306e09-006ams Client ID: BH23-81 0.0' Prep Date: 6/28/2023 | ND 5.0 1100 SampType: N Batch ID: 79 Analysis Date: 6 | 1000 S 55895 5/29/2023 SPK value | Tes F | 110 stCode: EF RunNo: 97 SeqNo: 38 | 15 PA Method 7810 559299 | 244 8015D: Gaso Units: mg/K | line Range | | |
| Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2306e09-006ams Client ID: BH23-81 0.0' Prep Date: 6/28/2023 Analyte | ND 5.0 1100 SampType: N Batch ID: 7 Analysis Date: (Result PQL | 1000 15 55895 5/29/2023 SPK value | Tes F S SPK Ref Val | 110 etCode: EF RunNo: 97 SeqNo: 35 %REC | 2A Method 7810 559299 LowLimit | 244 8015D: Gaso Units: mg/K HighLimit | line Range | | |

Qualifiers:

Client ID:

Prep Date:

Surr: BFB

Analyte

Value exceeds Maximum Contaminant Level.

BH23-81 0.0'

6/28/2023

Gasoline Range Organics (GRO)

Batch ID: 75895

Analysis Date: 6/29/2023

4.9

SPK value

24.56

982.3

Result

2100

24

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank

RunNo: 97810

%REC

96.5

218

SeqNo: 3559300

LowLimit

70

15

Units: mg/Kg

130

244

%RPD

4.96

0

RPDLimit

20

0

Qual

HighLimit

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

SPK Ref Val

0

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2306E09** *06-Jul-23*

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: Ics-75893 | 75893 SampType: LCS TestCode: EPA Method 8021B: Volatiles | | | | | | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|----------------------------|---|-------------------|-----------|-------------|-----------|----------|--------------|---------------------------------------|----------|------|--|--|--|--|--|
| Client ID: LCSS | Batch | h ID: 75 8 | 393 | F | RunNo: 97 | | | | | | | | | | |
| Prep Date: 6/28/2023 | Analysis D | Date: 6/2 | 29/2023 | 5 | SeqNo: 3 | 558106 | Units: mg/Kg | | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | | | | | |
| Benzene | 0.82 | 0.025 | 1.000 | 0 | 82.3 | 70 | 130 | | | | | | | | |
| Toluene | 0.84 | 0.050 | 1.000 | 0 | 84.1 | 70 | 130 | | | | | | | | |
| Ethylbenzene | 0.85 | 0.050 | 1.000 | 0 | 84.8 | 70 | 130 | | | | | | | | |
| Xylenes, Total | 2.5 | 0.10 | 3.000 | 0 | 84.9 | 70 | 130 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.97 | | 1.000 | | 96.8 | 39.1 | 146 | | | | | | | | |
| | | | | | | | | | | | | | | | |

| Sample ID: mb-75893 | Samp | уре: МЕ | BLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | | |
|----------------------------|------------|-------------------|-----------|---------------------------------------|--------------|----------|--------------|------|----------|------|--|--|--|
| Client ID: PBS | Batcl | n ID: 75 8 | 393 | F | RunNo: 97804 | | | | | | | | |
| Prep Date: 6/28/2023 | Analysis [| Date: 6/ 2 | 29/2023 | 5 | SeqNo: 3 | 558107 | 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 | 0.95 | | 1.000 | | 95.2 | 39.1 | 146 | | | | | | |

| Sample ID: mb-75895 | SampT | уре: МЕ | BLK | TestCode: EPA Method 8021B: Volatiles | | | | | | | | | | |
|----------------------------|------------|-------------------|-----------|---------------------------------------|--------------|----------|-------------|-------|----------|------|--|--|--|--|
| Client ID: PBS | Batch | n ID: 75 8 | 395 | F | RunNo: 97810 | | | | | | | | | |
| Prep Date: 6/28/2023 | Analysis D | Date: 6/ 2 | 29/2023 | 5 | SeqNo: 3 | 558398 | Units: mg/K | ng/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 | 0.93 | | 1.000 | .000 93.0 39.1 146 | | | | | | | | | | |

| Sample ID: 2306e09-007ams | SampT | ype: MS | | TestCode: EPA Method 8021B: Volatiles | | | | | | | |
|----------------------------|------------|------------------|-----------|---------------------------------------|------|----------|-----------|------|----------|------|--|
| Client ID: BH23-81 2.0' | Batch | n ID: 758 | 95 | RunNo: 97810 | | | | | | | |
| Prep Date: 6/28/2023 | Analysis D | ate: 6/2 | 29/2023 | 8 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Benzene | 0.84 | 0.025 | 0.9823 | 0 | 85.2 | 70 | 130 | | | | |
| Toluene | 0.86 | 0.049 | 0.9823 | 0 | 87.2 | 70 | 130 | | | | |
| Ethylbenzene | 0.87 | 0.049 | 0.9823 | 0 | 88.1 | 70 | 130 | | | | |
| Xylenes, Total | 2.6 | 0.098 | 2.947 | 0 | 88.9 | 70 | 130 | | | | |
| Surr: 4-Bromofluorobenzene | 0.90 | | 0.9823 | 9823 91.4 39.1 146 | | | | | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 18 of 19

Hall Environmental Analysis Laboratory, Inc.

WO#: **2306E09** *06-Jul-23*

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: 2306e09-007amsd | Samp ⁻ | SampType: MSD TestCode: EPA Method 8021B: Volatiles | | | | | | | | | |
|----------------------------|-------------------------------------|---|-----------|---------------------|-----------|----------|-----------|------|----------|------|--|
| Client ID: BH23-81 2.0' | Batc | h ID: 75 8 | 395 | F | RunNo: 97 | | | | | | |
| Prep Date: 6/28/2023 | Analysis [| Date: 6/ 2 | 29/2023 | 9 | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Benzene | 0.75 | 0.025 | 0.9814 | 0 | 76.4 | 70 | 130 | 11.0 | 20 | | |
| Toluene | 0.77 | 0.049 | 0.9814 | 0 | 78.8 | 70 | 130 | 10.1 | 20 | | |
| Ethylbenzene | 0.78 | 0.049 | 0.9814 | 0 | 79.9 | 70 | 130 | 9.79 | 20 | | |
| Xylenes, Total | 2.4 | 0.098 | 2.944 | 0 | 81.1 | 70 | 130 | 9.30 | 20 | | |
| Surr: 4-Bromofluorobenzene | r: 4-Bromofluorobenzene 0.91 0.9814 | | | 4 92.4 39.1 146 0 0 | | | | | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 19 of 19



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

Released to Imaging: 4/23/2025 2:19:30 PM

| Client Name: | Devon Energy | Work Order Number: | 2306E09 | | RcptNo | p: 1 |
|--------------------|--|-----------------------------------|------------|-----------------|-----------------------------------|----------------------|
| Received By: | Juan Rojas | 6/28/2023 7:15:00 AM | | Hansay | | |
| Completed By: | | | | | | |
| | Tracy Casarrubi | 4/28/23 | | | | |
| Reviewed By: | 000 | 4/20/20 | | | | |
| Chain of Cus | todv | | | | | |
| 1. Is Chain of Cu | | | Yes 🗌 | No 🗹 | Not Present | |
| 2. How was the | sample delivered? | | Courier | | | |
| Log In | | | | | | |
| | pt made to cool the | e samples? | Yes 🗹 | No 🗌 | na 🗆 | |
| | | | | | | |
| 4. Were all samp | oles received at a te | emperature of >0° C to 6.0°C | Yes 🔽 | No 🗌 | na 🗌 | |
| 5. Sample(s) in p | oroper container(s) | ? | Yes 🗹 | No 🗌 | | |
| 6. Sufficient sam | ple volume for indic | cated test(s)? | Yes 🗹 | No 🗌 | | |
| 7. Are samples (| except VOA and OI | NG) properly preserved? | Yes 🗹 | No 🗌 | | |
| 8. Was preserval | tive added to bottle | s? | Yes 🗌 | No 🗹 | NA 🗌 | |
| 9. Received at le | ast 1 vial with head | space <1/4" for AQ VOA? | Yes 🗌 | No 🗌 | NA 🗹 | |
| 10. Were any san | nple containers rec | eived broken? | Yes | No 🗹 | # of processed | |
| | | | | | # of preserved bottles checked | |
| | ork match bottle lab ancies on chain of c | | Yes 🗹 | No 📙 | for pH: (<2 c | or >12 unless noted) |
| | | on Chain of Custody? | Yes 🗹 | No 🗌 | Adjusted? | |
| | t analyses were req | | Yes 🗹 | No 🗌 | | . 1 0/ |
| | ng times able to be | | Yes 🗹 | No 🗌 | Checked by: | Jul 28/23 |
| (If no, notify cu | ustomer for authoriz | zation.) | | | | |
| Special Handl | ing (if applicat | ole) | | | | |
| 15. Was client no | tified of all discrepa | ancies with this order? | Yes 🗌 | No 🗌 | NA 🗹 | |
| Person | Notified: | Date: | | | | |
| By Who | om: | Via: | _ eMail [| Phone Fax | ☐ In Person | |
| Regardi | ing: | | | | | |
| Client Ir | nstructions: Mailin | o address phone number and Emails | Fax are mi | ssing on COC-TM | C 6/28/23 | |
| 16. Additional rea | marks: | pa constitution strong or | C 6 . | (WE 6/18/1. | 3 | |
| 17. Cooler Infor | mation | | | | | |
| Cooler No | | | Seal Date | Signed By | | |
| 1 | 1.4 Good | d Yes Morty | | | | |

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Received by OCD: 11/20/2024 10:49:03 AM

ANALYSIS LABORATORY HALL ENVIRONMENTAL Released 16 Imaging: 473/2025 2:19:30 PM 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 www.hallenvironmental.com **Analysis Request** Total Coliform (Present/Absent) (AOV-imaS) 07S8 (AOV) 09S8 CDE' Bt' NO3' 102, PO4, 504 SCRA 8 Metals Tel. 505-345-3975 PAHs by 8310 or 8270SIMS EDB (Method 504.1) 8081 Pesticides/8082 PCB's Remarks: 8015D(GRO / DRO / MRO) BTEX MTBE / TMB's (8021) 喬 11/2 8/82/9 ပ် HEAL NO. 2306609 Cotton Draw Unit 1-12 CTB A'Rush 5 Daws 6-6-7-1-6 sel rela 200 00 8 900 010 013 200 900 110 P00 500 20 8 Kent Stullings 1000 Preservative 23 E-02423 301 Cooler Temp(Including CF): Via: Type AE Turn-Around Time: Project Manager: Project Name: # of Coolers: Standard Type and # Received by: Received by Container 02 Project #: Sampler: On Ice: 0.0 00 □ Level 4 (Full Validation) Chain-of-Custody Record Sample Name 81423-82 BH23-83 BH23-82 EB-52418 3423-84 BH23-79 B1423-80 8423 - 80 BA23-80 Brt23-81 BH23-81 8423-79 □ Az Compliance Relinquished by: Relinquished by: 0/0/ □ Other Matrix 50. 00:00 130 10,20 970 630 1.20 Jac | 20 | 20 | 20 | 10,30 000 0/1 7.7 623 1070 Mailing Address: Time: QA/QC Package: Time Time: ☐ EDD (Type) email or Fax#: Accreditation: □ Standard □ NELAC Phone #: Date: Date

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| LAIL ENVIDONMENTAL | ANALYSIS LABORATORY | www.hallenvironmental.com | 4901 Hawkins NE - Albuquerque, NM 87109 | | Analysis Request | | PO₄, S | 927(| s 3, 1/AC | 310 310 310 310 | 9y 83 B Ma 3r, 18 MOA | EDB (N RCRA 8 CR, F, E 8260 (V 8270 (S Total C | | | | | | | | and the second of the second o | The second secon | 17× Y | L. Neal Oranings | | |
|-------------------------|-------------------------|---------------------------|---|-------------------------|------------------|----------------|--|-------------|--------------|--------------------------|--|---|---------------------------------|-----------|--|---|---|---|----------------|--|--|------------------------------|------------------|------------------------------|-----------------------|
| | | | 4901 H | Tel. 50 | | | O / MR | 7 DR | , O.F | (GF | 12D | 08.Hg7 9 1808 | X | | | | À | | | | | Remarks: | 7 | | |
| Turn-Around Time: | Z Standard Z Rush 5 DAX | Project Name: | COMOS KIN MINITAL WILL | Project #: 2 5-02 4/2 3 | 20120 707 | | - Stallings | | ☐ Yes □ No | Mr. 19 | Cooler Temp(including cF): 1, 6-0.7=1.4 (°C) | Container Preservative HEAL No. | | | | | | 10 P | 10 m 10 m 10 m | | | Via: Date Time | WAND MATES | Received by: Via: Date Time | 24 round 6/26/13 7/15 |
| Chain-of-Custody Record | Client: | Direct Bill | Mailing Address: | | Phone #: | email or Fax#: | QA/QC Package: Standard Level 4 (Full Validation) | n: 🗆 Az Con | | □ EDD (Type) | | Date Time Matrix Sample Name | 6-26-23 12:00 50.1 18423-84 2.0 | Ju6/28/23 | |) | | | | | | Date: Time: Relinquished by: | | Date: Time: Relinquished by: | "MIB MO COMMANDED |

Released to Imaging: 4/23/2025 2:19:30 PM



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

Hall Environmental Analysis Laboratory

July 14, 2023

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210

TEL: (505) 350-1336

FAX:

RE: Cotton Draw Unit 1 12 CTB OrderNo.: 2306C86

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 9 sample(s) on 6/24/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 7/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-05 6.0

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/22/2023 9:00:00 AM

 Lab ID:
 2306C86-001
 Matrix: SOIL
 Received Date: 6/24/2023 7:45:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed |
|--------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORG | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 8.4 | mg/Kg | 1 | 6/28/2023 2:00:57 PM |
| Motor Oil Range Organics (MRO) | ND | 42 | mg/Kg | 1 | 6/28/2023 2:00:57 PM |
| Surr: DNOP | 95.7 | 69-147 | %Rec | 1 | 6/28/2023 2:00:57 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 6/28/2023 5:41:00 PM |
| Surr: BFB | 95.8 | 15-244 | %Rec | 1 | 6/28/2023 5:41:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 6/28/2023 5:41:00 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 6/28/2023 5:41:00 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 6/28/2023 5:41:00 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 6/28/2023 5:41:00 PM |
| Surr: 4-Bromofluorobenzene | 94.7 | 39.1-146 | %Rec | 1 | 6/28/2023 5:41:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | 1400 | 60 | mg/Kg | 20 | 6/28/2023 3:51:43 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 13

Date Reported: 7/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-09 6.0

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/22/2023 9:10:00 AM

 Lab ID:
 2306C86-002
 Matrix: SOIL
 Received Date: 6/24/2023 7:45:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 6/28/2023 2:11:44 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 6/28/2023 2:11:44 PM Surr: DNOP 97.8 69-147 %Rec 1 6/28/2023 2:11:44 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 6/28/2023 6:03:00 PM 4.9 mg/Kg 1 Surr: BFB 99.1 15-244 %Rec 1 6/28/2023 6:03:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 6/28/2023 6:03:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 6/28/2023 6:03:00 PM Ethylbenzene ND 0.049 mg/Kg 1 6/28/2023 6:03:00 PM Xylenes, Total ND mg/Kg 1 6/28/2023 6:03:00 PM 0.099 Surr: 4-Bromofluorobenzene 95.2 39.1-146 %Rec 1 6/28/2023 6:03:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS mg/Kg Chloride 6/28/2023 4:53:45 PM ND 60 20

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 13

Date Reported: 7/14/2023

6/28/2023 5:06:10 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-61 6.0

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/22/2023 9:20:00 AM

 Lab ID:
 2306C86-003
 Matrix: SOIL
 Received Date: 6/24/2023 7:45:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: PRD Diesel Range Organics (DRO) ND 8.6 mg/Kg 1 6/28/2023 2:22:33 PM Motor Oil Range Organics (MRO) ND 43 mg/Kg 1 6/28/2023 2:22:33 PM Surr: DNOP 101 69-147 %Rec 1 6/28/2023 2:22:33 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 6/28/2023 6:48:00 PM 4.9 mg/Kg 1 Surr: BFB 96.5 15-244 %Rec 1 6/28/2023 6:48:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 6/28/2023 6:48:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 6/28/2023 6:48:00 PM Ethylbenzene ND 0.049 mg/Kg 1 6/28/2023 6:48:00 PM Xylenes, Total ND mg/Kg 1 6/28/2023 6:48:00 PM 0.099 Surr: 4-Bromofluorobenzene 93.6 39.1-146 %Rec 1 6/28/2023 6:48:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS

ND

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

Qualifiers:

Chloride

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

mg/Kg

20

60

- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 13

Date Reported: 7/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-63 0.0

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/22/2023 9:30:00 AM

 Lab ID:
 2306C86-004
 Matrix: SOIL
 Received Date: 6/24/2023 7:45:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: PRD **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 9.4 mg/Kg 1 6/28/2023 2:33:22 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 6/28/2023 2:33:22 PM Surr: DNOP 105 69-147 %Rec 1 6/28/2023 2:33:22 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: KMN Gasoline Range Organics (GRO) ND 6/28/2023 7:10:00 PM 4.9 mg/Kg 1 Surr: BFB 95.8 15-244 %Rec 1 6/28/2023 7:10:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: KMN Benzene ND 6/28/2023 7:10:00 PM 0.024 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 6/28/2023 7:10:00 PM Ethylbenzene ND 0.049 mg/Kg 1 6/28/2023 7:10:00 PM Xylenes, Total ND 0.098 mg/Kg 1 6/28/2023 7:10:00 PM Surr: 4-Bromofluorobenzene 93.0 39.1-146 %Rec 1 6/28/2023 7:10:00 PM **EPA METHOD 300.0: ANIONS** Analyst: SNS mg/Kg Chloride 6/28/2023 5:18:34 PM ND 60 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 13

Date Reported: 7/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-63 2.0

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/22/2023 9:40:00 AM

 Lab ID:
 2306C86-005
 Matrix: SOIL
 Received Date: 6/24/2023 7:45:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|---------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.8 | mg/Kg | 1 | 6/28/2023 4:48:52 PM |
| Motor Oil Range Organics (MRO) | ND | 49 | mg/Kg | 1 | 6/28/2023 4:48:52 PM |
| Surr: DNOP | 86.0 | 69-147 | %Rec | 1 | 6/28/2023 4:48:52 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 6/28/2023 7:32:00 PM |
| Surr: BFB | 95.9 | 15-244 | %Rec | 1 | 6/28/2023 7:32:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 6/28/2023 7:32:00 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 6/28/2023 7:32:00 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 6/28/2023 7:32:00 PM |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 6/28/2023 7:32:00 PM |
| Surr: 4-Bromofluorobenzene | 93.3 | 39.1-146 | %Rec | 1 | 6/28/2023 7:32:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 6/28/2023 5:30:58 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 13

Date Reported: 7/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-64 0.0

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/22/2023 9:50:00 AM

 Lab ID:
 2306C86-006
 Matrix: SOIL
 Received Date: 6/24/2023 7:45:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|---------------------------------------|--------|----------|---------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.1 | mg/Kg | 1 | 6/28/2023 4:59:42 PM |
| Motor Oil Range Organics (MRO) | ND | 45 | mg/Kg | 1 | 6/28/2023 4:59:42 PM |
| Surr: DNOP | 104 | 69-147 | %Rec | 1 | 6/28/2023 4:59:42 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 6/28/2023 7:54:00 PM |
| Surr: BFB | 103 | 15-244 | %Rec | 1 | 6/28/2023 7:54:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 6/28/2023 7:54:00 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 6/28/2023 7:54:00 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 6/28/2023 7:54:00 PM |
| Xylenes, Total | ND | 0.10 | mg/Kg | 1 | 6/28/2023 7:54:00 PM |
| Surr: 4-Bromofluorobenzene | 93.2 | 39.1-146 | %Rec | 1 | 6/28/2023 7:54:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 6/28/2023 5:43:22 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 13

Date Reported: 7/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-64 2.0

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/22/2023 10:10:00 AM

 Lab ID:
 2306C86-007
 Matrix: SOIL
 Received Date: 6/24/2023 7:45:00 AM

| Analyses | Result | RL Qua | al Units | DF | Date Analyzed |
|-------------------------------------|--------|----------|----------|----|----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE OR | GANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 9.6 | mg/Kg | 1 | 6/28/2023 5:10:42 PM |
| Motor Oil Range Organics (MRO) | ND | 48 | mg/Kg | 1 | 6/28/2023 5:10:42 PM |
| Surr: DNOP | 90.2 | 69-147 | %Rec | 1 | 6/28/2023 5:10:42 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.8 | mg/Kg | 1 | 6/28/2023 8:16:00 PM |
| Surr: BFB | 94.4 | 15-244 | %Rec | 1 | 6/28/2023 8:16:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.024 | mg/Kg | 1 | 6/28/2023 8:16:00 PM |
| Toluene | ND | 0.048 | mg/Kg | 1 | 6/28/2023 8:16:00 PM |
| Ethylbenzene | ND | 0.048 | mg/Kg | 1 | 6/28/2023 8:16:00 PM |
| Xylenes, Total | ND | 0.097 | mg/Kg | 1 | 6/28/2023 8:16:00 PM |
| Surr: 4-Bromofluorobenzene | 92.1 | 39.1-146 | %Rec | 1 | 6/28/2023 8:16:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 6/28/2023 5:55:47 PM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 13

Date Reported: 7/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-65 0.0

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/22/2023 10:20:00 AM

 Lab ID:
 2306C86-008
 Matrix: SOIL
 Received Date: 6/24/2023 7:45:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|---------------------------------------|--------|----------|---------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | NICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 8.1 | mg/Kg | 1 | 6/28/2023 5:21:41 PM |
| Motor Oil Range Organics (MRO) | ND | 40 | mg/Kg | 1 | 6/28/2023 5:21:41 PM |
| Surr: DNOP | 110 | 69-147 | %Rec | 1 | 6/28/2023 5:21:41 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 5.0 | mg/Kg | 1 | 6/28/2023 9:00:00 PM |
| Surr: BFB | 94.8 | 15-244 | %Rec | 1 | 6/28/2023 9:00:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 6/28/2023 9:00:00 PM |
| Toluene | ND | 0.050 | mg/Kg | 1 | 6/28/2023 9:00:00 PM |
| Ethylbenzene | ND | 0.050 | mg/Kg | 1 | 6/28/2023 9:00:00 PM |
| Xylenes, Total | ND | 0.099 | mg/Kg | 1 | 6/28/2023 9:00:00 PM |
| Surr: 4-Bromofluorobenzene | 92.6 | 39.1-146 | %Rec | 1 | 6/28/2023 9:00:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 6/29/2023 11:40:07 AM |

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 13

Date Reported: 7/14/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH23-65 2.0

 Project:
 Cotton Draw Unit 1 12 CTB
 Collection Date: 6/22/2023 10:30:00 AM

 Lab ID:
 2306C86-009
 Matrix: SOIL
 Received Date: 6/24/2023 7:45:00 AM

| Analyses | Result | RL Qua | l Units | DF | Date Analyzed |
|---------------------------------------|--------|----------|---------|----|-----------------------|
| EPA METHOD 8015M/D: DIESEL RANGE ORGA | ANICS | | | | Analyst: PRD |
| Diesel Range Organics (DRO) | ND | 8.5 | mg/Kg | 1 | 6/28/2023 5:32:39 PM |
| Motor Oil Range Organics (MRO) | ND | 43 | mg/Kg | 1 | 6/28/2023 5:32:39 PM |
| Surr: DNOP | 92.6 | 69-147 | %Rec | 1 | 6/28/2023 5:32:39 PM |
| EPA METHOD 8015D: GASOLINE RANGE | | | | | Analyst: KMN |
| Gasoline Range Organics (GRO) | ND | 4.9 | mg/Kg | 1 | 6/28/2023 9:22:00 PM |
| Surr: BFB | 103 | 15-244 | %Rec | 1 | 6/28/2023 9:22:00 PM |
| EPA METHOD 8021B: VOLATILES | | | | | Analyst: KMN |
| Benzene | ND | 0.025 | mg/Kg | 1 | 6/28/2023 9:22:00 PM |
| Toluene | ND | 0.049 | mg/Kg | 1 | 6/28/2023 9:22:00 PM |
| Ethylbenzene | ND | 0.049 | mg/Kg | 1 | 6/28/2023 9:22:00 PM |
| Xylenes, Total | ND | 0.098 | mg/Kg | 1 | 6/28/2023 9:22:00 PM |
| Surr: 4-Bromofluorobenzene | 93.7 | 39.1-146 | %Rec | 1 | 6/28/2023 9:22:00 PM |
| EPA METHOD 300.0: ANIONS | | | | | Analyst: SNS |
| Chloride | ND | 60 | mg/Kg | 20 | 6/29/2023 11:52:28 AM |

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2306C86 14-Jul-23**

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

Sample ID: MB-75886 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 75886 RunNo: 97784

Prep Date: 6/28/2023 Analysis Date: 6/28/2023 SeqNo: 3557546 Units: mq/Kg

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

Chloride ND 1.5

Sample ID: LCS-75886 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 75886 RunNo: 97784

Prep Date: 6/28/2023 Analysis Date: 6/28/2023 SeqNo: 3557547 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.3 90 110

Sample ID: MB-75902 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 75902 RunNo: 97846

Prep Date: 6/28/2023 Analysis Date: 6/29/2023 SeqNo: 3559150 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-75902 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 75902 RunNo: 97846

Prep Date: 6/28/2023 Analysis Date: 6/29/2023 SeqNo: 3559151 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 91.6 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2306C86

WO#:

14-Jul-23

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: LCS-75869 | SampT | ype: LC : | s | Tes | tCode: EF | PA Method | 8015M/D: Die | sel Range | Organics | |
|-----------------------------|------------|------------------|-----------|-------------|-----------|-----------|--------------|-----------|----------|------|
| Client ID: LCSS | Batch | n ID: 758 | 369 | F | RunNo: 97 | 7779 | | | | |
| Prep Date: 6/27/2023 | Analysis D | ate: 6/2 | 28/2023 | S | SeqNo: 3 | 557674 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 37 | 10 | 50.00 | 0 | 73.3 | 61.9 | 130 | | | |
| Surr: DNOP | 42 | | 5,000 | | 83.0 | 69 | 147 | | | |

Sample ID: MB-75869 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: Batch ID: 75869 **PBS** RunNo: 97779 Prep Date: Analysis Date: 6/28/2023 SeqNo: 3557676 6/27/2023 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10

| Biodol Harigo Organico (Bi (O) | 112 | | | | | |
|--------------------------------|-----|----|-------|-----|----|-----|
| Motor Oil Range Organics (MRO) | ND | 50 | | | | |
| Surr: DNOP | 10 | | 10.00 | 103 | 69 | 147 |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2306C86 14-Jul-23

WO#:

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

Sample ID: Ics-75862 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 75862 RunNo: 97769

Prep Date: 6/27/2023 Analysis Date: 6/28/2023 SeqNo: 3556942 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual 21 5.0 25.00 0 82.5 70 130

 Gasoline Range Organics (GRO)
 21
 5.0
 25.00
 0
 82.5
 70
 130

 Surr: BFB
 2000
 1000
 201
 15
 244

Sample ID: mb-75862 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 75862 RunNo: 97769

Prep Date: 6/27/2023 Analysis Date: 6/28/2023 SeqNo: 3556943 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 101 15 244

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 13

Hall Environmental Analysis Laboratory, Inc.

WO#: **2306C86**

14-Jul-23

Client: Devon Energy

Project: Cotton Draw Unit 1 12 CTB

| Sample ID: Ics-75862 | Samp ⁻ | Гуре: LC | S | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|-------------------|-------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: LCSS | Batc | h ID: 75 8 | 362 | F | RunNo: 97 | 7769 | | | | |
| Prep Date: 6/27/2023 | Analysis [| Date: 6/ 2 | 28/2023 | 5 | SeqNo: 3 | 556950 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 0.89 | 0.025 | 1.000 | 0 | 88.6 | 70 | 130 | | | |
| Toluene | 0.90 | 0.050 | 1.000 | 0 | 89.7 | 70 | 130 | | | |
| Ethylbenzene | 0.91 | 0.050 | 1.000 | 0 | 90.8 | 70 | 130 | | | |
| Xylenes, Total | 2.7 | 0.10 | 3.000 | 0 | 90.7 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 0.97 | | 1.000 | | 96.6 | 39.1 | 146 | | | |

| Sample ID: mb-75862 | SampT | уре: МЕ | BLK | Tes | tCode: EF | PA Method | 8021B: Volati | les | | |
|----------------------------|------------|-------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: PBS | Batch | n ID: 75 8 | 362 | F | RunNo: 97 | 7769 | | | | |
| Prep Date: 6/27/2023 | Analysis D | Date: 6/2 | 28/2023 | 5 | SeqNo: 3 | 556951 | Units: mg/K | g | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 0.025 | | | | | | | | |
| Toluene | ND | 0.050 | | | | | | | | |
| Ethylbenzene | ND | 0.050 | | | | | | | | |
| Xylenes, Total | ND | 0.10 | | | | | | | | |
| Surr: 4-Bromofluorobenzene | 0.95 | | 1.000 | | 94.9 | 39.1 | 146 | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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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

Released to Imaging: 4/23/2025 2:19:30 PM

| Client Name: Devon Ene | rgy | Work Order Number: | 2306C86 | | RcptNo: | 1 |
|---|------------------------|--------------------|-------------|-----------------|----------------------------|------------------|
| Received By: Tracy Cas | arrubias 6/2 | 24/2023 7:45:00 AM | | | | |
| Completed By: Tracy Cas | arrubias 6/2 | 25/2023 7:19:06 AM | | | | |
| Reviewed By: # 6~ | 26-23 | | | | | |
| Chain of Custody | | | _ | | | |
| 1. Is Chain of Custody comp | lete? | | Yes 🗌 | No 🗹 | Not Present | |
| 2. How was the sample deliv | ered? | | Courier | | | |
| <u>Log In</u> 3. Was an attempt made to c | and the nameles? | | Yes 🗸 | No 🗌 | na 🗀 | |
| 3. Was an altempt made to t | coortine samples? | | 162 🖭 | 140 | IVA L | |
| 4. Were all samples received | at a temperature of > | 0° C to 6.0°C | Yes 🗸 | No 🗌 | NA \square | |
| 5. Sample(s) in proper contain | iner(s)? | | Yes 🗹 | No 🗌 | | |
| 5. Sufficient sample volume f | or indicated test(s)? | | Yes 🗹 | No 🗌 | | |
| 7. Are samples (except VOA | and ONG) properly pre | eserved? | Yes 🗹 | No 🗌 | | |
| 3. Was preservative added to | bottles? | | Yes | No 🗹 | NA 🗌 | |
| 9. Received at least 1 vial wit | h headspace <1/4" for | AQ VOA? | Yes 🗌 | No 🗌 | N∳ ☑ | |
| 0. Were any sample containe | ers received broken? | | Yes 🗌 | No 🗹 | # of preserved | |
| 1. Does paperwork match bot | ttle labels? | | Yes 🗹 | No 🗀 | bottles checked for pH: | |
| (Note discrepancies on cha | - | | | 🗆 | (<2 or > | 12 unless noted) |
| 2. Are matrices correctly iden | | ody? | Yes 🗹 | No ∐ | , tujusteu: | . 0 / |
| 3. Is it clear what analyses we | | | Yes 🗹 | No ∐ | Chacked his | M 0/1/20 |
| Were all holding times able (If no, notify customer for a | | | Yes 🔽 | No 🗌 | Checked by: | in own of |
| pecial Handling (if app | olicable) | | | | | |
| 15. Was client notified of all d | iscrepancies with this | order? | Yes 🗌 | No 🗌 | NA 🗹 | |
| Person Notified: | | Date: | | | | |
| By Whom: | | Via: | eMail [| Phone Fax | ☐ In Person | |
| Regarding: | | | | | | |
| Client Instructions: | Mailing address, phor | e number and Email | Fax are mis | sing on COC- TM | IC 6/25/23 | |

Seal Date

Signed By

Cooler No

Temp ºC

2.0

Condition

Yes

Good

Seal Intact | Seal No

Yogi

| 10.40. | 4 10:47:03 AM |
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| 10.40.0 | 4 10:47:03 |
| 10.40.0 | 4 10:47:0. |
| 10.40.0 | 4 10:47:0. |
| 10.40. | 4 10:47: |
| 10.40 | 4 10:47 |
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| Chain-or-Custody Record | I urn-Around Time: | |
|---|--|--|
| Client: | Standard 🗆 Rush | HALL ENVIRONMENTAL |
| Direct Rill | le: | ANALTSIS LABORATORY |
| Mailing Address: | Lotter Dar Chit 1-12 CTB | www.nailenvironmental.com |
| | Project #: | ζ |
| Phone #: | 236-02423 | Tel. 303-343-3873 Fax 303-345-4107 |
| email or Fax#: | | ((|
| QA/QC Package: | 4 Stallings | NEC |
| ☐ Standard ☐ Level 4 (Full Validation) | | PO4 |
| Accreditation: Az Compliance | r. Met | 1 DR82 (1.1) 8270 |
| □ EDD (Type) | # of Colour. | OS) 50, 3, 1 1s, 1s, |
| | (netualing CF): 1 4 + 1 2 (°C) | ticide hod B310 Neta NO A) |
| | 0 | o15 Met by 8 Br, |
| Date Time Matrix Sample Name | Container Preservative HEAL No. | 3081 F 3081 F 3081 F 3081 F 3080 (S 3081 C |
| 6-22-23 0900 So. / RAZ3-05 6.0 | 100 301 | 8 8 8 1 1 1 1 1 1 1 |
| 1 0910 1 81723-09 6.0 | | |
| 0920 8423-61 6.0 | 700 | |
| 0930 8423-63 0.0 | POO. | |
| 0940 8423-63 2.0 | 200 | |
| 0.0 49-5248 0.0 | 300 | |
| 1010 81723-64 2,0 | 400 | |
| 1020 1/18423-65 0.0 | 800 | |
| V 1030 V 81723-65 2.0 | V V 0009 | > |
| | | |
| | | |
| Date: Time: Palinauishad bu: | | |
| j | ia: Date Time | Remarks: // / / / / / Stall / / / |
| Date: Time: Relinquished by: | Received by: Vial Time | |
| Wales low Manner | San Company | |
| ary, samples submitted to Hall Environm | and may be addicontracted to other accredited laboratories. This cance a partial of this | Selection of the select |

This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. Released to Imaging: 4/23/2025 2:19:30 PM

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Chad Hensley Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 7/9/2024 11:52:17 AM

JOB DESCRIPTION

Cotton Draw 1-12 CTB

JOB NUMBER

885-7227-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated 7/9/2024 11:52:17 AM

Authorized for release by Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com (505)345-3975 2

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10

11

Client: Vertex Laboratory Job ID: 885-7227-1

Project/Site: Cotton Draw 1-12 CTB

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| QC Sample Results | 8 |
| QC Association Summary | 12 |
| Lab Chronicle | 14 |
| Certification Summary | 15 |
| Chain of Custody | 16 |
| Receipt Checklists | 17 |

Definitions/Glossary

Client: Vertex Job ID: 885-7227-1

Project/Site: Cotton Draw 1-12 CTB

Qualifiers

GC VOA
Qualifier Qualifier Description

S1+ Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Albuquerque

Case Narrative

Client: Vertex Job ID: 885-7227-1

Project: Cotton Draw 1-12 CTB

Eurofins Albuquerque Job ID: 885-7227-1

Job Narrative 885-7227-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 7/2/2024 8:03 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Albuquerque

Client: Vertex Job ID: 885-7227-1

Project/Site: Cotton Draw 1-12 CTB

Client Sample ID: Backfill-01 Lab Sample ID: 885-7227-1

Date Collected: 06/28/24 12:00 Matrix: Solid

Date Received: 07/02/24 08:03

Di-n-octyl phthalate (Surr)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|---------------|-------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics [C6 - C10] | ND | | 3.2 | mg/Kg | | 07/02/24 11:39 | 07/02/24 12:58 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 94 | | 35 - 166 | | | 07/02/24 11:39 | 07/02/24 12:58 | 1 |
| Method: SW846 8021B - Volatile | Organic Comp | ounds (GC) |) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.016 | mg/Kg | | 07/02/24 11:39 | 07/02/24 12:58 | 1 |
| Ethylbenzene | ND | | 0.032 | mg/Kg | | 07/02/24 11:39 | 07/02/24 12:58 | 1 |
| Toluene | ND | | 0.032 | mg/Kg | | 07/02/24 11:39 | 07/02/24 12:58 | 1 |
| Xylenes, Total | ND | | 0.064 | mg/Kg | | 07/02/24 11:39 | 07/02/24 12:58 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 87 | | 48 - 145 | | | 07/02/24 11:39 | 07/02/24 12:58 | 1 |
| - Method: SW846 8015M/D - Diese | l Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics [C10-C28] | ND | | 9.3 | mg/Kg | | 07/02/24 17:02 | 07/02/24 19:06 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 46 | mg/Kg | | 07/02/24 17:02 | 07/02/24 19:06 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |

| Method: EPA 300.0 - Anions, Ion C | hromatography | | | | | | |
|-----------------------------------|------------------|----|-------|---|----------------|----------------|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 60 | 60 | mg/Kg | | 07/03/24 09:05 | 07/03/24 16:09 | 20 |

62 - 134

Eurofins Albuquerque

07/02/24 17:02 07/02/24 19:06

Client Sample Results

Client: Vertex Job ID: 885-7227-1

Project/Site: Cotton Draw 1-12 CTB

Client Sample ID: Backfill-02

Lab Sample ID: 885-7227-2

Matrix: Solid

Date Collected: 06/28/24 12:05 Date Received: 07/02/24 08:03

| Method: SW846 8015M/D - Gasol | ine Range Org | anics (GRC | O) (GC) | | | | | |
|------------------------------------|---------------|------------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics [C6 - C10] | ND | | 3.2 | mg/Kg | | 07/02/24 11:39 | 07/02/24 13:22 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 96 | | 35 - 166 | | | 07/02/24 11:39 | 07/02/24 13:22 | 1 |
| _ | | | | | | | | |

| Method: SW846 8021B - Volatil | e Organic Comp | ounds (GC) | | | | | | |
|-------------------------------|----------------|------------|--------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | MD | | 0.016 | mg/Kg | | 07/02/24 11:39 | 07/02/24 13:22 | 1 |
| Ethylbenzene | ND | | 0.032 | mg/Kg | | 07/02/24 11:39 | 07/02/24 13:22 | 1 |
| Toluene | ND | | 0.032 | mg/Kg | | 07/02/24 11:39 | 07/02/24 13:22 | 1 |
| Xylenes, Total | ND | | 0.063 | mg/Kg | | 07/02/24 11:39 | 07/02/24 13:22 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |

4-Bromofluorobenzene (Surr) 48 - 145 07/02/24 11:39 07/02/24 13:22

| Method: SW846 8015M/D - Diese | I Range Organ | ics (DRO) (| GC) | | | | | |
|------------------------------------|---------------|-------------|--------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics [C10-C28] | ND | | 10 | mg/Kg | | 07/02/24 17:02 | 07/02/24 19:31 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 50 | mg/Kg | | 07/02/24 17:02 | 07/02/24 19:31 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 95 | | 62 134 | | | 07/02/24 17:02 | 07/02/24 19:31 | |

| Method: EPA 300.0 - Anions, Ion C | hromatography | | | | | | |
|-----------------------------------|------------------|----|-------|---|----------------|----------------|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 74 | 60 | mg/Kg | | 07/03/24 09:05 | 07/03/24 16:21 | 20 |

Prep Batch: 7778

Prep Batch: 7778

Client: Vertex Job ID: 885-7227-1

Project/Site: Cotton Draw 1-12 CTB

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-7778/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Solid Analysis Batch: 7830

MB MB Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Gasoline Range Organics [C6 - C10] ND 5.0 mg/Kg 07/02/24 11:39 07/02/24 12:34

MB MB

LCS LCS

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 96 35 - 166 07/02/24 11:39 07/02/24 12:34

Lab Sample ID: LCS 885-7778/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 7830

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 25.0 25.4 101 Gasoline Range Organics [C6 mg/Kg 70 - 130

C10]

%Recovery Qualifier Surrogate

Limits 204 S1+ 35 - 166 4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-7227-1 MS Client Sample ID: Backfill-01

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 7830 Prep Batch: 7778

Sample Sample Spike MS MS Result Qualifier Added Result Qualifier Analyte Unit D %Rec Limits 16.1 106 Gasoline Range Organics [C6 -ND 17.1 mg/Kg 70 - 130

C10]

MS MS

%Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 213 S1+ 35 - 166

Lab Sample ID: 885-7227-1 MSD **Matrix: Solid**

Analysis Batch: 7830

Sample Sample MSD MSD Spike %Rec Result Qualifier Added Qualifier RPD Analyte Result %Rec Limits Unit Gasoline Range Organics [C6 -ND 16.1 16.6 mg/Kg 103 70 - 130

C10]

Toluene

MSD MSD

%Recovery Qualifier Surrogate Limits 215 S1+ 35 - 166 4-Bromofluorobenzene (Surr)

ND

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-7778/1-A

Matrix: Solid

Released to Imaging: 4/23/2025 2:19:30 PM

Analysis Batch: 7831

MB MB Analyte Result Qualifier RL Unit Analyzed Dil Fac D Prepared 0.025 Benzene ND mg/Kg 07/02/24 11:39 07/02/24 12:34 Ethylbenzene ND 0.050 mg/Kg 07/02/24 11:39 07/02/24 12:34

0.050

mg/Kg

Eurofins Albuquerque

Prep Type: Total/NA

Prep Batch: 7778

Client Sample ID: Method Blank

07/02/24 12:34

07/02/24 11:39

Client Sample ID: Backfill-01 Prep Type: Total/NA

> Prep Batch: 7778 RPD

Limit

20

Client: Vertex Job ID: 885-7227-1

Project/Site: Cotton Draw 1-12 CTB

Lab Sample ID: MB 885-7778/1-A

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Analysis Batch: 7831

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 7778

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac ND Xylenes, Total 0.10 07/02/24 11:39 07/02/24 12:34 mg/Kg

MB MB

мв мв

%Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 86 48 - 145 07/02/24 11:39 07/02/24 12:34

Lab Sample ID: LCS 885-7778/3-A Client Sample ID: Lab Control Sample

Analysis Batch: 7831

Matrix: Solid

Prep Type: Total/NA Prep Batch: 7778

| | Spike | LCS | LCS | | | | %Rec | |
|----------------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 1.00 | 0.892 | | mg/Kg | | 89 | 70 - 130 | |
| Ethylbenzene | 1.00 | 0.839 | | mg/Kg | | 84 | 70 - 130 | |
| m,p-Xylene | 2.00 | 1.71 | | mg/Kg | | 86 | 70 - 130 | |
| o-Xylene | 1.00 | 0.841 | | mg/Kg | | 84 | 70 - 130 | |
| Toluene | 1.00 | 0.839 | | mg/Kg | | 84 | 70 - 130 | |
| Xylenes, Total | 3.00 | 2.55 | | mg/Kg | | 85 | 70 - 130 | |
| | | | | | | | | |

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 90 48 - 145

Lab Sample ID: 885-7227-2 MS

Matrix: Solid

Analysis Batch: 7831

Client Sample ID: Backfill-02 Prep Type: Total/NA

Prep Batch: 7778

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|----------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | ND | | 0.631 | 0.569 | | mg/Kg | | 90 | 70 - 130 | |
| Ethylbenzene | ND | | 0.631 | 0.542 | | mg/Kg | | 86 | 70 - 130 | |
| m,p-Xylene | ND | | 1.26 | 1.10 | | mg/Kg | | 86 | 70 - 130 | |
| o-Xylene | ND | | 0.631 | 0.536 | | mg/Kg | | 85 | 70 - 130 | |
| Toluene | ND | | 0.631 | 0.538 | | mg/Kg | | 84 | 70 - 130 | |
| Xylenes, Total | ND | | 1.89 | 1.64 | | mg/Kg | | 86 | 70 - 130 | |
| | | | | | | | | | | |

MS MS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 97 48 - 145

Lab Sample ID: 885-7227-2 MSD

Matrix: Solid

Analysis Batch: 7831

Client Sample ID: Backfill-02 Prep Type: Total/NA

Prep Batch: 7778

| Analysis Baton, 1001 | | | | | | | | | | p Baton | |
|----------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|---------|-------|
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | ND | | 0.631 | 0.543 | | mg/Kg | | 86 | 70 - 130 | 5 | 20 |
| Ethylbenzene | ND | | 0.631 | 0.522 | | mg/Kg | | 83 | 70 - 130 | 4 | 20 |
| m,p-Xylene | ND | | 1.26 | 1.08 | | mg/Kg | | 84 | 70 - 130 | 2 | 20 |
| o-Xylene | ND | | 0.631 | 0.523 | | mg/Kg | | 83 | 70 - 130 | 2 | 20 |
| Toluene | ND | | 0.631 | 0.512 | | mg/Kg | | 80 | 70 - 130 | 5 | 20 |
| Xylenes, Total | ND | | 1.89 | 1.60 | | mg/Kg | | 84 | 70 - 130 | 2 | 20 |

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Job ID: 885-7227-1

Project/Site: Cotton Draw 1-12 CTB

Lab Sample ID: 885-7227-2 MSD

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Client: Vertex

Analysis Batch: 7831

MSD MSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 93 48 - 145 Client Sample ID: Backfill-02 Prep Type: Total/NA

Prep Batch: 7778

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-7832/1-A Matrix: Solid

Analysis Batch: 7765

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 7832

MB MB Analyte Result Qualifier RLUnit D Prepared Dil Fac Analyzed Diesel Range Organics [C10-C28] 07/02/24 17:02 ND 10 mg/Kg 07/02/24 18:18 Motor Oil Range Organics [C28-C40] ND 50 07/02/24 17:02 07/02/24 18:18 mg/Kg MB MB %Recovery Limits Qualifier Dil Fac Surrogate Prepared Analyzed

Lab Sample ID: LCS 885-7832/2-A Client Sample ID: Lab Control Sample

62 - 134

Matrix: Solid

Analysis Batch: 7765

Di-n-octyl phthalate (Surr)

Spike LCS LCS Added Result Qualifier Unit

Prep Type: Total/NA Prep Batch: 7832 %Rec

07/02/24 18:18

07/02/24 17:02

Analyte D %Rec Limits Diesel Range Organics 50.0 57.1 114 60 - 135 mg/Kg

[C10-C28]

LCS LCS

98

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 109 62 - 134

Lab Sample ID: 885-7227-2 MS Client Sample ID: Backfill-02

Matrix: Solid

Analysis Batch: 7765

Prep Type: Total/NA Prep Batch: 7832

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Diesel Range Organics ND 47.9 52.1 mg/Kg 109 44 - 136

[C10-C28]

MS MS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 99 62 - 134

Lab Sample ID: 885-7227-2 MSD Client Sample ID: Backfill-02

Matrix: Solid

Analysis Batch: 7765

Prep Type: Total/NA

Prep Batch: 7832

RPD Sample Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Diesel Range Organics ND 45.5 48.5 107 44 - 136 32 mg/Kg [C10-C28]

Released to Imaging: 4/23/2025 2:19:30 PM

MSD MSD

%Recovery Qualifier Limits Surrogate Di-n-octyl phthalate (Surr) 99 62 - 134

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Prep Batch: 7850

Prep Type: Total/NA

Prep Batch: 7850

QC Sample Results

Client: Vertex Job ID: 885-7227-1

Project/Site: Cotton Draw 1-12 CTB

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-7850/1-A Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Solid Analysis Batch: 7895

MD MD

| | INDI | IVID | | | | | | |
|----------|----------|-----------|-----|-------|---|----------------|----------------|---------|
| Analyte | Result C | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | ND ND | | 3.0 | mg/Kg | | 07/03/24 09:05 | 07/03/24 10:33 | 1 |

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 885-7850/2-A **Matrix: Solid**

Analysis Batch: 7895

Spike LCS LCS %Rec

Analyte Added Result Qualifier Limits Unit D %Rec 30.0 Chloride 27.0 mg/Kg 90 90 - 110

Client: Vertex Job ID: 885-7227-1

Project/Site: Cotton Draw 1-12 CTB

GC VOA

Prep Batch: 7778

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 885-7227-1 | Backfill-01 | Total/NA | Solid | 5035 | |
| 885-7227-2 | Backfill-02 | Total/NA | Solid | 5035 | |
| MB 885-7778/1-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 885-7778/2-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCS 885-7778/3-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| 885-7227-1 MS | Backfill-01 | Total/NA | Solid | 5035 | |
| 885-7227-1 MSD | Backfill-01 | Total/NA | Solid | 5035 | |
| 885-7227-2 MS | Backfill-02 | Total/NA | Solid | 5035 | |
| 885-7227-2 MSD | Backfill-02 | Total/NA | Solid | 5035 | |

Analysis Batch: 7830

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|---------|------------|
| 885-7227-1 | Backfill-01 | Total/NA | Solid | 8015M/D | 7778 |
| 885-7227-2 | Backfill-02 | Total/NA | Solid | 8015M/D | 7778 |
| MB 885-7778/1-A | Method Blank | Total/NA | Solid | 8015M/D | 7778 |
| LCS 885-7778/2-A | Lab Control Sample | Total/NA | Solid | 8015M/D | 7778 |
| 885-7227-1 MS | Backfill-01 | Total/NA | Solid | 8015M/D | 7778 |
| 885-7227-1 MSD | Backfill-01 | Total/NA | Solid | 8015M/D | 7778 |

Analysis Batch: 7831

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 885-7227-1 | Backfill-01 | Total/NA | Solid | 8021B | 7778 |
| 885-7227-2 | Backfill-02 | Total/NA | Solid | 8021B | 7778 |
| MB 885-7778/1-A | Method Blank | Total/NA | Solid | 8021B | 7778 |
| LCS 885-7778/3-A | Lab Control Sample | Total/NA | Solid | 8021B | 7778 |
| 885-7227-2 MS | Backfill-02 | Total/NA | Solid | 8021B | 7778 |
| 885-7227-2 MSD | Backfill-02 | Total/NA | Solid | 8021B | 7778 |

GC Semi VOA

Analysis Batch: 7765

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|---------|------------|
| 885-7227-1 | Backfill-01 | Total/NA | Solid | 8015M/D | 7832 |
| 885-7227-2 | Backfill-02 | Total/NA | Solid | 8015M/D | 7832 |
| MB 885-7832/1-A | Method Blank | Total/NA | Solid | 8015M/D | 7832 |
| LCS 885-7832/2-A | Lab Control Sample | Total/NA | Solid | 8015M/D | 7832 |
| 885-7227-2 MS | Backfill-02 | Total/NA | Solid | 8015M/D | 7832 |
| 885-7227-2 MSD | Backfill-02 | Total/NA | Solid | 8015M/D | 7832 |

Prep Batch: 7832

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 885-7227-1 | Backfill-01 | Total/NA | Solid | SHAKE | |
| 885-7227-2 | Backfill-02 | Total/NA | Solid | SHAKE | |
| MB 885-7832/1-A | Method Blank | Total/NA | Solid | SHAKE | |
| LCS 885-7832/2-A | Lab Control Sample | Total/NA | Solid | SHAKE | |
| 885-7227-2 MS | Backfill-02 | Total/NA | Solid | SHAKE | |
| 885-7227-2 MSD | Backfill-02 | Total/NA | Solid | SHAKE | |

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QC Association Summary

Client: Vertex Job ID: 885-7227-1

Project/Site: Cotton Draw 1-12 CTB

HPLC/IC

Prep Batch: 7850

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method Prep Batch |
|------------------|--------------------|-----------|--------|-------------------|
| 885-7227-1 | Backfill-01 | Total/NA | Solid | 300_Prep |
| 885-7227-2 | Backfill-02 | Total/NA | Solid | 300_Prep |
| MB 885-7850/1-A | Method Blank | Total/NA | Solid | 300_Prep |
| LCS 885-7850/2-A | Lab Control Sample | Total/NA | Solid | 300_Prep |

Analysis Batch: 7895

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 885-7227-1 | Backfill-01 | Total/NA | Solid | 300.0 | 7850 |
| 885-7227-2 | Backfill-02 | Total/NA | Solid | 300.0 | 7850 |
| MB 885-7850/1-A | Method Blank | Total/NA | Solid | 300.0 | 7850 |
| LCS 885-7850/2-A | Lab Control Sample | Total/NA | Solid | 300.0 | 7850 |

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Client Sample ID: Backfill-01

Date Collected: 06/28/24 12:00

Lab Sample ID: 885-7227-1

Matrix: Solid

Date Received: 07/02/24 08:03

Client: Vertex

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5035 | | | 7778 | JP | EET ALB | 07/02/24 11:39 |
| Total/NA | Analysis | 8015M/D | | 1 | 7830 | JP | EET ALB | 07/02/24 12:58 |
| Total/NA | Prep | 5035 | | | 7778 | JP | EET ALB | 07/02/24 11:39 |
| Total/NA | Analysis | 8021B | | 1 | 7831 | JP | EET ALB | 07/02/24 12:58 |
| Total/NA | Prep | SHAKE | | | 7832 | DH | EET ALB | 07/02/24 17:02 |
| Total/NA | Analysis | 8015M/D | | 1 | 7765 | DH | EET ALB | 07/02/24 19:06 |
| Total/NA | Prep | 300_Prep | | | 7850 | RC | EET ALB | 07/03/24 09:05 |
| Total/NA | Analysis | 300.0 | | 20 | 7895 | MA | EET ALB | 07/03/24 16:09 |

Client Sample ID: Backfill-02

Date Collected: 06/28/24 12:05

Lab Sample ID: 885-7227-2

Matrix: Solid

Date Received: 07/02/24 08:03

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5035 | | | 7778 | JP | EET ALB | 07/02/24 11:39 |
| Total/NA | Analysis | 8015M/D | | 1 | 7830 | JP | EET ALB | 07/02/24 13:22 |
| Total/NA | Prep | 5035 | | | 7778 | JP | EET ALB | 07/02/24 11:39 |
| Total/NA | Analysis | 8021B | | 1 | 7831 | JP | EET ALB | 07/02/24 13:22 |
| Total/NA | Prep | SHAKE | | | 7832 | DH | EET ALB | 07/02/24 17:02 |
| Total/NA | Analysis | 8015M/D | | 1 | 7765 | DH | EET ALB | 07/02/24 19:31 |
| Total/NA | Prep | 300_Prep | | | 7850 | RC | EET ALB | 07/03/24 09:05 |
| Total/NA | Analysis | 300.0 | | 20 | 7895 | MA | EET ALB | 07/03/24 16:21 |

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Vertex Job ID: 885-7227-1

Project/Site: Cotton Draw 1-12 CTB

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| ıthority | Progr | ram | Identification Number | Expiration Date |
|-------------------------|------------------------------|--------------------------------|--|-------------------------|
| ew Mexico | State | | NM9425, NM0901 02-26-25 | |
| • • | • | ut the laboratory is not certi | ied by the governing authority. This lis | st may include analytes |
| for which the agency de | oes not offer certification. | | | |
| Analysis Method | Prep Method | Matrix | Analyte | |
| 300.0 | 300_Prep | Solid | Chloride | |
| 8015M/D | 5035 | Solid | Gasoline Range Organics | [C6 - C10] |
| 8015M/D | SHAKE | Solid | Diesel Range Organics [C | 10-C28] |
| 8015M/D | SHAKE | Solid | Motor Oil Range Organics | [C28-C40] |
| 8021B | 5035 | Solid | Benzene | |
| 8021B | 5035 | Solid | Ethylbenzene | |
| 8021B | 5035 | Solid | Toluene | |
| 8021B | 5035 | Solid | Xylenes, Total | |
| regon | NELA | .P | NM100001 | 02-26-25 |

Eurofins Albuquerque

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| Received by OCD: 11/20/2024 | 10:49:03 AM | | Page 436 of 523 |
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| LYSIS LAB HER allenvironmental.co HER - Albuquerque, NN885-7227 COC Fax 505-345-4107 Analysis Request | CF) F, Br, NO3, NO2, PO4, SO4 | | |
| | RCRA 8 Metals | | Remarks: Directorial problem worth 211 C.C. SMCCOANGUETE Co. possibility Any sub-contractegdata will be clearly notated on the analytical report. |
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| urn-Around □ Standard roject Name □ 44.0 \(\frac{1}{2} 1 | ot M. A.C. Soole Soole ainer and | 2000 | ed by |
| Turn-Arou □ Stand Project Ni Project #: | Project Mana Uhad Sampler: Sampler: On Ice: # of Coolers: Cooler Temp Container Type and # | 000000000000000000000000000000000000000 | Received by Received by Additional Additional Contracted to Contracted t |
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Login Sample Receipt Checklist

Client: Vertex Job Number: 885-7227-1

Login Number: 7227 List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Chad Hensley Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 7/29/2024 9:40:11 AM

JOB DESCRIPTION

Cotton Draw Unit 1-12

JOB NUMBER

885-8239-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated 7/29/2024 9:40:11 AM

Authorized for release by Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com (505)345-3975 1

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Client: Vertex Laboratory Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

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Definitions/Glossary

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Surrogate recovery exceeds control limits, high biased.

Glossary

LOQ

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| n | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit

Limit of Quantitation (DoD/DOE)

ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count **TNTC**

Case Narrative

Client: Vertex Job ID: 885-8239-1

Project: Cotton Draw Unit 1-12

Eurofins Albuquerque Job ID: 885-8239-1

Job Narrative 885-8239-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 7/18/2024 7:08 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015D DRO: The continuing calibration verification (CCV) associated with batch 885-8875 recovered outside acceptance criteria, low biased, for Di-n-octyl phthalate (Surr). Samples degraded inlet liner, causing low surrogate recovery, all samples with low surrogate will be re-ran. Reporting all samples with passing surrogate. The following samples are associated CS24-16 @ 1' (885-8239-16), CS24-17 @ 1' (885-8239-17), CS24-18 @ 1' (885-8239-18), CS24-19 @ 1' (885-8239-19), CS24-20 @ 1' (885-8239-20), CWS-01 @ 0-1 (885-8239-21), CWS-02 @ 0-1 (885-8239-22), CWS-03 @ 0-1 (885-8239-23), CWS-04 @ 0-1 (885-8239-24), CWS-05 @ 0-1' (885-8239-25) and CWS-06 @ 0-1' (885-8239-26).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CS24-01 @ 1'

Lab Sample ID: 885-8239-1

Date Collected: 07/16/24 10:03 Matrix: Solid Date Received: 07/18/24 07:08

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------------|-------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND | | 5.0 | mg/Kg | | 07/19/24 08:44 | 07/22/24 12:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 102 | | 35 - 166 | | | 07/19/24 08:44 | 07/22/24 12:17 | 1 |
| Method: SW846 8021B - Volatile (| Organic Comp | ounds (GC) | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.025 | mg/Kg | | 07/19/24 08:44 | 07/22/24 12:17 | 1 |
| Ethylbenzene | ND | | 0.050 | mg/Kg | | 07/19/24 08:44 | 07/22/24 12:17 | 1 |
| Toluene | ND | | 0.050 | mg/Kg | | 07/19/24 08:44 | 07/22/24 12:17 | 1 |
| Xylenes, Total | ND | | 0.099 | mg/Kg | | 07/19/24 08:44 | 07/22/24 12:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 94 | | 48 - 145 | | | 07/19/24 08:44 | 07/22/24 12:17 | 1 |
| Method: SW846 8015M/D - Diese | Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics [C10-C28] | 10 | | 9.5 | mg/Kg | | 07/22/24 11:58 | 07/22/24 13:08 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 47 | mg/Kg | | 07/22/24 11:58 | 07/22/24 13:08 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 104 | | 62 - 134 | | | 07/22/24 11:58 | 07/22/24 13:08 | 1 |
| Method: EPA 300.0 - Anions, Ion | Chromatograp | hy | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | ND | | 60 | mg/Kg | | 07/22/24 13:36 | 07/22/24 15:22 | 20 |

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Xylenes, Total

Client Sample ID: CS24-02 @ 1'

Date Collected: 07/16/24 10:09
Date Received: 07/18/24 07:08

ND

Lab Sample ID: 885-8239-2

07/22/24 13:28

07/19/24 08:44

Matrix: Solid

| Method: SW846 8015M/D - Gas | soline Range Org | anics (GRC |)) (GC) | | | | | |
|-----------------------------------|------------------|------------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | ND | | 5.0 | mg/Kg | | 07/19/24 08:44 | 07/22/24 13:28 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 96 | | 35 - 166 | | | 07/19/24 08:44 | 07/22/24 13:28 | 1 |
| – Method: SW846 8021B - Volati | le Organic Comp | ounds (GC) |) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.025 | mg/Kg | | 07/19/24 08:44 | 07/22/24 13:28 | 1 |
| Ethylbenzene | ND | | 0.050 | mg/Kg | | 07/19/24 08:44 | 07/22/24 13:28 | 1 |
| Toluene | ND | | 0.050 | mg/Kg | | 07/19/24 08:44 | 07/22/24 13:28 | 1 |

| Surrogate | %Recovery 0 | Qualifier | Limits | Prepared A | nalyzed | Dil Fac |
|-----------------------------|-------------|-----------|----------|---------------------|------------|---------|
| 4-Bromofluorobenzene (Surr) | 90 | _ | 48 - 145 | 07/19/24 08:44 07/2 | 2/24 13:28 | 1 |

0.10

mg/Kg

| Method: SW846 8015M/D - Diesel Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | ND | | 9.5 | mg/Kg | | 07/22/24 11:58 | 07/22/24 13:21 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 47 | mg/Kg | | 07/22/24 11:58 | 07/22/24 13:21 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 101 | | 62 - 134 | | | 07/22/24 11:58 | 07/22/24 13:21 | 1 |

| Method: EPA 300.0 - Anions, Ion C | hromatograp | hy | | | | | | |
|-----------------------------------|-------------|-----------|----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | ND | | 60 | mg/Kg | | 07/22/24 13:36 | 07/22/24 16:08 | 20 |

Eurofins Albuquerque

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Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CS24-03 @ 1'

Date Collected: 07/16/24 10:13

Date Received: 07/18/24 07:08

| Lab Sample ID: 885-8239-3 | Lab | Sam | ple | ID: | 885- | 8239-3 |
|---------------------------|-----|-----|-----|-----|------|--------|
|---------------------------|-----|-----|-----|-----|------|--------|

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| Matrix: | Solid |
|---------|-------|

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------------|----------------------|-------------------------|-------------------------|----------|--|--|----------------------------|
| Gasoline Range Organics | ND | | 4.9 | mg/Kg | | 07/19/24 08:44 | 07/22/24 14:38 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97 | | 35 - 166 | | | 07/19/24 08:44 | 07/22/24 14:38 | 1 |
| Method: SW846 8021B - Volati | • | . , | | Unit | D | Prenared | Analyzed | Dil Fac |
| Method: SW846 8021B - Volati Analyte | • | ounds (GC) Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | • | . , | | Unit mg/Kg | <u>D</u> | Prepared 07/19/24 08:44 | Analyzed 07/22/24 14:38 | Dil Fac |
| Analyte | Result | . , | RL | | <u>D</u> | | | Dil Fac |
| Analyte Benzene | Result ND | . , | RL 0.024 | mg/Kg | <u>D</u> | 07/19/24 08:44 | 07/22/24 14:38 | Dil Fac 1 1 1 |
| Analyte Benzene Ethylbenzene | Result ND ND | . , | RL 0.024 0.049 | mg/Kg | <u>D</u> | 07/19/24 08:44 07/19/24 08:44 | 07/22/24 14:38 07/22/24 14:38 | Dil Fac 1 1 1 1 |
| Analyte Benzene Ethylbenzene Toluene | Result ND ND ND | Qualifier | 0.024 0.049 0.049 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/19/24 08:44 07/19/24 08:44 07/19/24 08:44 | 07/22/24 14:38 07/22/24 14:38 07/22/24 14:38 | Dil Fac 1 1 1 1 1 Dil Fac |

| O) (GC) | Unit | _ | | | |
|----------|-------|----------|----------------|--|--|
| r RL | 11 | _ | | | |
| | Unit | D | Prepared | Analyzed | Dil Fac |
| 9.9 | mg/Kg | | 07/22/24 11:58 | 07/22/24 13:34 | 1 |
| 49 | mg/Kg | | 07/22/24 11:58 | 07/22/24 13:34 | 1 |
| r Limits | | | Prepared | Analyzed | Dil Fac |
| 62 - 134 | | | 07/22/24 11:58 | 07/22/24 13:34 | 1 |
| | 49 | 49 mg/Kg | 49 mg/Kg | 49 mg/Kg 07/22/24 11:58 r Limits Prepared | 49 mg/Kg 07/22/24 11:58 07/22/24 13:34 r Limits Prepared Analyzed |

| motilou. El A 000.0 Amono, ion o | momutograpmy | | | | | | |
|----------------------------------|------------------|----|-------|---|----------------|----------------|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | ND — | 61 | mg/Kg | | 07/22/24 13:36 | 07/22/24 16:53 | 20 |

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CS24-04 @ 1'

Date Collected: 07/16/24 10:17 Date Received: 07/18/24 07:08 Lab Sample ID: 885-8239-4

Matrix: Solid

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND | | 4.8 | mg/Kg | | 07/19/24 08:44 | 07/22/24 15:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 103 | | 35 - 166 | | | 07/19/24 08:44 | 07/22/24 15:02 | 1 |

| Method: SW846 8021B - Volat | ile Organic Comp | ounds (GC |) | | | | | |
|-----------------------------|------------------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.024 | mg/Kg | | 07/19/24 08:44 | 07/22/24 15:02 | 1 |
| Ethylbenzene | ND | | 0.048 | mg/Kg | | 07/19/24 08:44 | 07/22/24 15:02 | 1 |
| Toluene | ND | | 0.048 | mg/Kg | | 07/19/24 08:44 | 07/22/24 15:02 | 1 |
| Xylenes, Total | ND | | 0.096 | mg/Kg | | 07/19/24 08:44 | 07/22/24 15:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97 | | 48 - 145 | | | 07/19/24 08:44 | 07/22/24 15:02 | 1 |

| Method: SW846 8015M/D - Diese | l Range Organ | ics (DRO) (| GC) | | | | | |
|------------------------------------|---------------|-------------|----------|-------|---|----------------|----------------|---------|
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics [C10-C28] | ND | | 10 | mg/Kg | | 07/22/24 11:58 | 07/22/24 13:47 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 50 | mg/Kg | | 07/22/24 11:58 | 07/22/24 13:47 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 104 | | 62 - 134 | | | 07/22/24 11:58 | 07/22/24 13:47 | 1 |

| Welliou. EPA 300.0 - Allions, lon C | ili olliatogi ap | illy | | | | | | |
|-------------------------------------|------------------|-----------|----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | ND | | 60 | mg/Kg | | 07/22/24 13:36 | 07/22/24 17:08 | 20 |

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Date Received: 07/18/24 07:08

Client Sample ID: CS24-05 @ 1'

Date Collected: 07/16/24 10:21

Lab Sample ID: 885-8239-5

Matrix: Solid

07/22/24 11:58

Prepared

07/22/24 11:58 07/22/24 14:00

07/22/24 14:00

Analyzed

Dil Fac

| Method: SW846 8015M/D - Gas | soline Range Org | anics (GRC |) (GC) | | | | | |
|-----------------------------------|------------------|-------------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | MD | | 4.7 | mg/Kg | | 07/19/24 08:44 | 07/22/24 15:25 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 100 | | 35 - 166 | | | 07/19/24 08:44 | 07/22/24 15:25 | 1 |
| - Method: SW846 8021B - Volati | le Organic Comp | ounds (GC) | 1 | | | | | |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.024 | mg/Kg | | 07/19/24 08:44 | 07/22/24 15:25 | 1 |
| Ethylbenzene | ND | | 0.047 | mg/Kg | | 07/19/24 08:44 | 07/22/24 15:25 | 1 |
| Toluene | ND | | 0.047 | mg/Kg | | 07/19/24 08:44 | 07/22/24 15:25 | 1 |
| Xylenes, Total | ND | | 0.095 | mg/Kg | | 07/19/24 08:44 | 07/22/24 15:25 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 92 | | 48 - 145 | | | 07/19/24 08:44 | 07/22/24 15:25 | 1 |
| - Method: SW846 8015M/D - Die | sel Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | • | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics [C10-C28] | ND | | 9.0 | mg/Kg | | 07/22/24 11:58 | 07/22/24 14:00 | 1 |

| DI-n-octyl pritnalate (Surr) | 104 |
|------------------------------|-----|
| - | |

ND

%Recovery Qualifier

Motor Oil Range Organics [C28-C40]

Surrogate

| Method: EPA 300.0 - Anions, Ion C | hromatograp | hy | | | | | | |
|-----------------------------------|-------------|-----------|----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | ND | | 61 | mg/Kg | | 07/22/24 13:36 | 07/22/24 17:54 | 20 |

45

Limits

62 - 134

mg/Kg

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CS24-06 @ 1'

Date Collected: 07/16/24 10:24 Date Received: 07/18/24 07:08

Surrogate

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-8239-6

Analyzed

07/22/24 15:49

Dil Fac

Prepared

07/19/24 08:44

Matrix: Solid

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------------------------|-------------------------|---------------------|------------|----------|--------------------------|--------------------------------|-------------------|
| Gasoline Range Organics | ND | | 4.8 | mg/Kg | | 07/19/24 08:44 | 07/22/24 15:49 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 97 | ounds (GC) | 35 ₋ 166 | | | 07/19/24 08:44 | 07/22/24 15:49 | 1 |
| 4-Bromofluorobenzene (Surr) Method: SW846 8021B - Volati Analyte | le Organic Comp | ounds (GC) Qualifier | | Unit | D | 07/19/24 08:44 Prepared | 07/22/24 15:49 Analyzed | 1 Dil Fac |
| Method: SW846 8021B - Volati | le Organic Comp | | | Unit mg/Kg | <u>D</u> | | | Dil Fac |
| Method: SW846 8021B - Volati Analyte | le Organic Comp | | RL | | <u>D</u> | Prepared | Analyzed | 1 Dil Fac 1 |
| Method: SW846 8021B - Volati Analyte Benzene | le Organic Component Result | | RL 0.024 | mg/Kg | <u>D</u> | Prepared 07/19/24 08:44 | Analyzed 07/22/24 15:49 | 1 Dil Fac 1 1 1 1 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | ND | | 9.4 | mg/Kg | | 07/22/24 11:58 | 07/22/24 14:13 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 47 | mg/Kg | | 07/22/24 11:58 | 07/22/24 14:13 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 107 | | 62 - 134 | | | 07/22/24 11:58 | 07/22/24 14:13 | 1 |

Limits

48 - 145

%Recovery Qualifier

90

| Michiga. El A 000.0 - Allions, lon o | inomatography | | | | | | |
|--------------------------------------|------------------|----|-------|---|----------------|----------------|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | ND | 60 | mg/Kg | | 07/22/24 13:36 | 07/22/24 18:09 | 20 |

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CS24-07 @ 1'

Lab Sample ID: 885-8239-7

Matrix: Solid

Date Collected: 07/16/24 10:32 Date Received: 07/18/24 07:08

Analyte

Chloride

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------------|-------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | ND | | 4.8 | mg/Kg | | 07/19/24 08:44 | 07/22/24 16:12 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99 | | 35 - 166 | | | 07/19/24 08:44 | 07/22/24 16:12 | 1 |
| Method: SW846 8021B - Volatile (| Organic Comp | ounds (GC) |) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.024 | mg/Kg | | 07/19/24 08:44 | 07/22/24 16:12 | 1 |
| Ethylbenzene | ND | | 0.048 | mg/Kg | | 07/19/24 08:44 | 07/22/24 16:12 | 1 |
| Toluene | ND | | 0.048 | mg/Kg | | 07/19/24 08:44 | 07/22/24 16:12 | 1 |
| Xylenes, Total | ND | | 0.096 | mg/Kg | | 07/19/24 08:44 | 07/22/24 16:12 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 94 | | 48 - 145 | | | 07/19/24 08:44 | 07/22/24 16:12 | 1 |
| Method: SW846 8015M/D - Diesel | Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics [C10-C28] | ND | | 9.4 | mg/Kg | | 07/22/24 11:58 | 07/22/24 14:26 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 47 | mg/Kg | | 07/22/24 11:58 | 07/22/24 14:26 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 109 | | 62 - 134 | | | 07/22/24 11:58 | 07/22/24 14:26 | |

RL

60

Unit

mg/Kg

Prepared

07/22/24 13:36

Analyzed

07/22/24 18:24

Dil Fac

20

Result Qualifier

ND

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CS24-08 @ 1'

Lab Sample ID: 885-8239-8

Matrix: Solid

07/22/24 13:36

07/22/24 18:39

Date Collected: 07/16/24 10:38 Date Received: 07/18/24 07:08

| | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| asoline Range Organics | ND | | 4.8 | mg/Kg | | 07/19/24 08:44 | 07/22/24 16:36 | 1 |
| GRO)-C6-C10 | | | | | | | | |
| urrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Bromofluorobenzene (Surr) | 104 | | 35 - 166 | | | 07/19/24 08:44 | 07/22/24 16:36 | 1 |
| lethod: SW846 8021B - Volatile | Organic Comp | ounds (GC) |) | | | | | |
| nalyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| enzene | ND | - | 0.024 | mg/Kg | | 07/19/24 08:44 | 07/22/24 16:36 | 1 |
| thylbenzene | ND | | 0.048 | mg/Kg | | 07/19/24 08:44 | 07/22/24 16:36 | 1 |
| bluene | ND | | 0.048 | mg/Kg | | 07/19/24 08:44 | 07/22/24 16:36 | 1 |
| ylenes, Total | ND | | 0.097 | mg/Kg | | 07/19/24 08:44 | 07/22/24 16:36 | 1 |
| urrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Bromofluorobenzene (Surr) | 95 | | 48 - 145 | | | 07/19/24 08:44 | 07/22/24 16:36 | 1 |
| lethod: SW846 8015M/D - Dies | el Range Organ | ics (DRO) (| GC) | | | | | |
| nalyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| iesel Range Organics [C10-C28] | ND | | 9.8 | mg/Kg | | 07/22/24 11:58 | 07/22/24 14:39 | 1 |
| otor Oil Range Organics [C28-C40] | ND | | 49 | mg/Kg | | 07/22/24 11:58 | 07/22/24 14:39 | 1 |
| urrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| i-n-octyl phthalate (Surr) | 104 | | 62 - 134 | | | 07/22/24 11:58 | 07/22/24 14:39 | 1 |

60

mg/Kg

ND

Released to Imaging: 4/23/2025 2:19:30 PM

Chloride

20

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CS24-09 @ 1'

Lab Sample ID: 885-8239-9 Date Collected: 07/16/24 10:49

Matrix: Solid

07/22/24 11:58 07/22/24 14:52

Date Received: 07/18/24 07:08

Di-n-octyl phthalate (Surr)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|---------------|-------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | ND | | 4.7 | mg/Kg | | 07/19/24 08:44 | 07/22/24 16:59 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 104 | | 35 - 166 | | | 07/19/24 08:44 | 07/22/24 16:59 | 1 |
| Method: SW846 8021B - Volatile | Organic Comp | ounds (GC) |) | | | | | |
| Analyte | • | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.023 | mg/Kg | | 07/19/24 08:44 | 07/22/24 16:59 | 1 |
| Ethylbenzene | ND | | 0.047 | mg/Kg | | 07/19/24 08:44 | 07/22/24 16:59 | 1 |
| Toluene | ND | | 0.047 | mg/Kg | | 07/19/24 08:44 | 07/22/24 16:59 | 1 |
| Xylenes, Total | ND | | 0.093 | mg/Kg | | 07/19/24 08:44 | 07/22/24 16:59 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 95 | | 48 - 145 | | | 07/19/24 08:44 | 07/22/24 16:59 | 1 |
| - Method: SW846 8015M/D - Diese | l Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics [C10-C28] | ND | | 9.8 | mg/Kg | | 07/22/24 11:58 | 07/22/24 14:52 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 49 | mg/Kg | | 07/22/24 11:58 | 07/22/24 14:52 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |

| Method: EPA 300.0 - Anions, Ion C | hromatograp | hy | | | | | | |
|-----------------------------------|-------------|-----------|----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | ND | | 60 | mg/Kg | | 07/22/24 13:36 | 07/22/24 18:54 | 20 |

62 - 134

108

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CS24-10 @ 1'

Date Collected: 07/16/24 10:54 Date Received: 07/18/24 07:08

Surrogate

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-8239-10

Analyzed

07/22/24 17:23

Prepared

07/19/24 08:44

Matrix: Solid

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------------------------|----------------------|---------------------|---------------|----------|--------------------------|-------------------------|-------------------|
| Gasoline Range Organics | ND | | 4.9 | mg/Kg | | 07/19/24 08:44 | 07/22/24 17:23 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| | | | | | | | | |
| 4-Bromofluorobenzene (Surr) Method: SW846 8021B - Volati | 100 | ounds (GC) | 35 - 166 | | | 07/19/24 08:44 | 07/22/24 17:23 | 1 |
| 4-Bromofluorobenzene (Surr) Method: SW846 8021B - Volati Analyte | le Organic Comp | ounds (GC) Qualifier | 35 ₋ 166 | Unit | D | 07/19/24 08:44 Prepared | 07/22/24 17:23 Analyzed | 1 Dil Fac |
| Method: SW846 8021B - Volati | le Organic Comp | | | Unit mg/Kg | <u>D</u> | | | Dil Fac |
| Method: SW846 8021B - Volati Analyte | le Organic Comp | | RL | | <u>D</u> | Prepared | Analyzed | 1 Dil Fac |
| Method: SW846 8021B - Volati Analyte Benzene | lle Organic Comp Result ND | | RL 0.024 | mg/Kg | <u>D</u> | Prepared 07/19/24 08:44 | Analyzed 07/22/24 17:23 | 1 Dil Fac 1 1 1 1 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | ND | | 9.6 | mg/Kg | | 07/22/24 11:58 | 07/22/24 15:05 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 48 | mg/Kg | | 07/22/24 11:58 | 07/22/24 15:05 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 108 | | 62 - 134 | | | 07/22/24 11:58 | 07/22/24 15:05 | |

Limits

48 - 145

%Recovery Qualifier

94

| | iliculou. El A 000.0 - Allions, ion o | momatograp | '''y | | | | | | |
|---|---------------------------------------|------------|-----------|----|-------|---|----------------|----------------|---------|
| Δ | Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| C | Chloride | ND | | 60 | mg/Kg | | 07/22/24 13:36 | 07/22/24 19:09 | 20 |

Eurofins Albuquerque

4

6

8

10

11

Dil Fac

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CS24-11 @ 1'

Date Collected: 07/16/24 11:05 Date Received: 07/18/24 07:08

Toluene

Xylenes, Total

Lab Sample ID: 885-8239-11

07/22/24 18:10

07/22/24 18:10

07/19/24 08:44

07/19/24 08:44

Matrix: Solid

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------------|------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND | | 4.9 | mg/Kg | | 07/19/24 08:44 | 07/22/24 18:10 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 100 | | 35 - 166 | | | 07/19/24 08:44 | 07/22/24 18:10 | 1 |
| - Method: SW846 8021B - Volati | le Organic Comp | ounds (GC) |) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.025 | mg/Kg | | 07/19/24 08:44 | 07/22/24 18:10 | 1 |
| Ethylbenzene | ND | | 0.049 | ma/Ka | | 07/19/24 08:44 | 07/22/24 18:10 | 1 |

| Surrogate | %Recovery Q | Qualifier | Limits | Prepared Analyzed | Dil Fac |
|-----------------------------|-------------|-----------|----------|-----------------------------|---------|
| 4-Bromofluorobenzene (Surr) | 92 | | 48 - 145 | 07/19/24 08:44 07/22/24 18: | 0 1 |

0.049

0.099

mg/Kg

mg/Kg

ND

ND

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | ND | | 9.4 | mg/Kg | | 07/22/24 11:58 | 07/22/24 15:19 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 47 | mg/Kg | | 07/22/24 11:58 | 07/22/24 15:19 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 109 | | 62 - 134 | | | 07/22/24 11:58 | 07/22/24 15:19 | 1 |

| Method: EPA 300.0 - Anions, Ion Cl | s, Ion Chromatography | | | | | | | | |
|------------------------------------|-----------------------|-----------|----|-------|---|----------------|----------------|---------|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
| Chloride | 1200 | | 60 | mg/Kg | | 07/22/24 13:36 | 07/22/24 19:25 | 20 | |

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CS24-12 @ 1'

Date Collected: 07/16/24 11:05

Date Received: 07/18/24 07:08

Xylenes, Total

4-Bromofluorobenzene (Surr)

Surrogate

Lab Sample ID: 885-8239-12

07/22/24 18:33

Analyzed

07/22/24 18:33

Dil Fac

07/19/24 08:44

Prepared

07/19/24 08:44

Matrix: Solid

| Method: SW846 8015M/D - Gas | soline Range Org | anics (GRC |)) (GC) | | | | | |
|------------------------------|------------------|------------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | MD | | 5.0 | mg/Kg | | 07/19/24 08:44 | 07/22/24 18:33 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 100 | | 35 - 166 | | | 07/19/24 08:44 | 07/22/24 18:33 | 1 |
| Method: SW846 8021B - Volati | le Organic Comp | ounds (GC) |) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.025 | mg/Kg | | 07/19/24 08:44 | 07/22/24 18:33 | 1 |
| Ethylbenzene | ND | | 0.050 | mg/Kg | | 07/19/24 08:44 | 07/22/24 18:33 | 1 |
| Toluene | ND | | 0.050 | mg/Kg | | 07/19/24 08:44 | 07/22/24 18:33 | 1 |

0.10

Limits

48 - 145

mg/Kg

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | ND | | 10 | mg/Kg | | 07/22/24 11:58 | 07/22/24 15:32 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 50 | mg/Kg | | 07/22/24 11:58 | 07/22/24 15:32 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 109 | | 62 - 134 | | | 07/22/24 11:58 | 07/22/24 15:32 | 1 |

ND

%Recovery Qualifier

93

| Welliou. EFA 300.0 - Allions, Ion Ci | ilioillatography | | | | | | |
|--------------------------------------|------------------|----|-------|---|----------------|----------------|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 310 | 60 | mg/Kg | | 07/22/24 13:36 | 07/22/24 19:40 | 20 |

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CS24-13 @ 1'

Lab Sample ID: 885-8239-13

Date Collected: 07/16/24 11:10 Matrix: Solid

| | line Range Org | • | , , , | | _ | | | |
|------------------------------------|----------------|-------------|----------|-------|---|----------------|----------------|--------|
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| Gasoline Range Organics | ND | | 4.7 | mg/Kg | | 07/19/24 08:44 | 07/22/24 18:57 | |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 101 | | 35 - 166 | | | 07/19/24 08:44 | 07/22/24 18:57 | |
| Method: SW846 8021B - Volatile | Organic Comp | ounds (GC) |) | | | | | |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| Benzene | ND | | 0.024 | mg/Kg | | 07/19/24 08:44 | 07/22/24 18:57 | |
| Ethylbenzene | ND | | 0.047 | mg/Kg | | 07/19/24 08:44 | 07/22/24 18:57 | |
| Toluene | ND | | 0.047 | mg/Kg | | 07/19/24 08:44 | 07/22/24 18:57 | |
| Xylenes, Total | ND | | 0.095 | mg/Kg | | 07/19/24 08:44 | 07/22/24 18:57 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 95 | | 48 - 145 | | | 07/19/24 08:44 | 07/22/24 18:57 | |
| Method: SW846 8015M/D - Diese | I Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| Diesel Range Organics [C10-C28] | ND | | 9.6 | mg/Kg | | 07/22/24 11:58 | 07/22/24 15:45 | |
| Motor Oil Range Organics [C28-C40] | ND | | 48 | mg/Kg | | 07/22/24 11:58 | 07/22/24 15:45 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| Di-n-octyl phthalate (Surr) | 101 | | 62 - 134 | | | 07/22/24 11:58 | 07/22/24 15:45 | |
| Method: EPA 300.0 - Anions, Ion | Chromatograp | hy | | | | | | |
| Analyte | • • | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| | | | | | | | | |

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CS24-14 @ 1'

Lab Sample ID: 885-8239-14

Date Collected: 07/16/24 11:15 Matrix: Solid

| | | anics (GRO | , , | | _ | | | B.: E |
|---|---------------|-------------|----------|-------|---|----------------|----------------|---------|
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | ND | | 4.9 | mg/Kg | | 07/19/24 08:44 | 07/22/24 19:20 | • |
| (3.13) 33 3.13 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 102 | | 35 - 166 | | | 07/19/24 08:44 | 07/22/24 19:20 | |
| Method: SW846 8021B - Volatile | Organic Comp | ounds (GC) |) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| Benzene | ND | - | 0.025 | mg/Kg | | 07/19/24 08:44 | 07/22/24 19:20 | |
| Ethylbenzene | ND | | 0.049 | mg/Kg | | 07/19/24 08:44 | 07/22/24 19:20 | , |
| Toluene | ND | | 0.049 | mg/Kg | | 07/19/24 08:44 | 07/22/24 19:20 | |
| Xylenes, Total | ND | | 0.098 | mg/Kg | | 07/19/24 08:44 | 07/22/24 19:20 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 96 | | 48 - 145 | | | 07/19/24 08:44 | 07/22/24 19:20 | |
| Method: SW846 8015M/D - Diese | I Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics [C10-C28] | ND | | 9.3 | mg/Kg | | 07/22/24 12:31 | 07/22/24 15:29 | |
| Motor Oil Range Organics [C28-C40] | ND | | 46 | mg/Kg | | 07/22/24 12:31 | 07/22/24 15:29 | , |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| Di-n-octyl phthalate (Surr) | 99 | | 62 - 134 | | | 07/22/24 12:31 | 07/22/24 15:29 | |
| Method: EPA 300.0 - Anions, Ion | Chromatograp | hy | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| • | | | | | | | | |

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CS24-15 @ 1'

Date Collected: 07/16/24 11:18

Date Received: 07/18/24 07:08

Surrogate

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-8239-15

Analyzed

07/22/24 19:44

Dil Fac

Prepared

07/19/24 08:44

Matrix: Solid

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------------------------|-------------------------|----------|------------|----------|--------------------------|--------------------------------|---------------|
| Gasoline Range Organics | ND | | 4.9 | mg/Kg | | 07/19/24 08:44 | 07/22/24 19:44 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| | | | | | | | | |
| 4-Bromofluorobenzene (Surr) Method: SW846 8021B - Volati | 97 | ounds (GC) | 35 - 166 | | | 07/19/24 08:44 | 07/22/24 19:44 | 1 |
| 4-Bromofluorobenzene (Surr) Method: SW846 8021B - Volati Analyte | le Organic Comp | ounds (GC) Qualifier | | Unit | D | 07/19/24 08:44 Prepared | 07/22/24 19:44 Analyzed | 1 Dil Fac |
| Method: SW846 8021B - Volati | le Organic Comp | , , | | Unit mg/Kg | <u>D</u> | | | Dil Fac |
| Method: SW846 8021B - Volati Analyte | le Organic Comp | , , | RL | | <u>D</u> | Prepared | Analyzed | Dil Fac 1 |
| Method: SW846 8021B - Volati Analyte Benzene | lle Organic Comp Result ND | , , | RL 0.024 | mg/Kg | <u>D</u> | Prepared 07/19/24 08:44 | Analyzed 07/22/24 19:44 | Dil Fac 1 1 1 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | ND | | 9.8 | mg/Kg | | 07/22/24 12:31 | 07/22/24 15:53 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 49 | mg/Kg | | 07/22/24 12:31 | 07/22/24 15:53 | , |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 103 | | 62 - 134 | | | 07/22/24 12:31 | 07/22/24 15:53 | |

Limits

48 - 145

%Recovery Qualifier

91

| 1 | Michiod. El A 000.0 - Allions, lon o | momatograp | '''y | | | | | | |
|---|--------------------------------------|------------|-----------|----|-------|---|----------------|----------------|---------|
| | Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | Chloride | ND | | 60 | mg/Kg | | 07/22/24 13:36 | 07/22/24 20:55 | 20 |

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CS24-16 @ 1'

Lab Sample ID: 885-8239-16

Date Collected: 07/16/24 11:24 Matrix: Solid Date Received: 07/18/24 07:08

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|---------------|-------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | ND | | 4.8 | mg/Kg | | 07/19/24 08:44 | 07/22/24 20:07 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97 | | 35 - 166 | | | 07/19/24 08:44 | 07/22/24 20:07 | 1 |
| Method: SW846 8021B - Volatile | Organic Comp | ounds (GC) |) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.024 | mg/Kg | | 07/19/24 08:44 | 07/22/24 20:07 | 1 |
| Ethylbenzene | ND | | 0.048 | mg/Kg | | 07/19/24 08:44 | 07/22/24 20:07 | 1 |
| Toluene | ND | | 0.048 | mg/Kg | | 07/19/24 08:44 | 07/22/24 20:07 | 1 |
| Xylenes, Total | ND | | 0.096 | mg/Kg | | 07/19/24 08:44 | 07/22/24 20:07 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 92 | | 48 - 145 | | | 07/19/24 08:44 | 07/22/24 20:07 | 1 |
| Method: SW846 8015M/D - Diese | l Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics [C10-C28] | ND | | 9.9 | mg/Kg | | 07/22/24 12:31 | 07/22/24 15:33 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 50 | mg/Kg | | 07/22/24 12:31 | 07/22/24 15:33 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 98 | | 62 - 134 | | | 07/22/24 12:31 | 07/22/24 15:33 | 1 |
| - Method: EPA 300.0 - Anions, Ion | Chromatograp | hy | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | ND | | 60 | mg/Kg | | 07/22/24 13:36 | 07/22/24 21:11 | 20 |

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CS24-17 @ 1'

Date Collected: 07/16/24 11:29 Date Received: 07/18/24 07:08 Lab Sample ID: 885-8239-17

Matrix: Solid

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------------|------------|-------------------------------|-------------------------|----------|--|--|--------------------------|
| Gasoline Range Organics | ND | | 4.9 | mg/Kg | | 07/19/24 08:44 | 07/22/24 20:30 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99 | | 35 - 166 | | | 07/19/24 08:44 | 07/22/24 20:30 | 1 |
| | | | | | | | | |
| Method: SW846 8021B - Volati | no Organio Comp | ounas (oo) | | | | | | |
| Analyte Benzene | Result ND | Qualifier | RL 0.025 | Unit ma/Ka | <u>D</u> | Prepared 07/19/24 08:44 | Analyzed 07/22/24 20:30 | Dil Fac |
| | | Qualifier | RL | mg/Kg | <u>D</u> | | | Dil Fac |
| Benzene | ND | Qualifier | RL 0.025 | | <u>D</u> | 07/19/24 08:44 | 07/22/24 20:30 | 1 1 1 |
| Benzene Ethylbenzene | ND ND | Qualifier | 0.025 0.049 | mg/Kg | <u>D</u> | 07/19/24 08:44 07/19/24 08:44 | 07/22/24 20:30 07/22/24 20:30 | 1 1 1 1 |
| Benzene Ethylbenzene Toluene | ND ND ND | | RL 0.025 0.049 0.049 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/19/24 08:44 07/19/24 08:44 07/19/24 08:44 | 07/22/24 20:30 07/22/24 20:30 07/22/24 20:30 | Dil Fac 1 1 1 1 Dil Fac |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | ND | | 8.8 | mg/Kg | | 07/22/24 12:31 | 07/22/24 15:44 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 44 | mg/Kg | | 07/22/24 12:31 | 07/22/24 15:44 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 99 | | 62 - 134 | | | 07/22/24 12:31 | 07/22/24 15:44 | 1 |

| method. El A 000.0 - Amono, fon Omonatography | | | | | | | | |
|---|--------|-----------|----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | ND | | 61 | mg/Kg | | 07/22/24 13:36 | 07/22/24 21:26 | 20 |

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CS24-18 @ 1'

Lab Sample ID: 885-8239-18

Matrix: Solid

Date Collected: 07/16/24 11:34 Date Received: 07/18/24 07:08

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|---------------|-------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | ND | | 4.6 | mg/Kg | | 07/19/24 08:44 | 07/22/24 20:54 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98 | | 35 - 166 | | | 07/19/24 08:44 | 07/22/24 20:54 | 1 |
| Method: SW846 8021B - Volatile | Organic Comp | ounds (GC |) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.023 | mg/Kg | | 07/19/24 08:44 | 07/22/24 20:54 | 1 |
| Ethylbenzene | ND | | 0.046 | mg/Kg | | 07/19/24 08:44 | 07/22/24 20:54 | 1 |
| Toluene | ND | | 0.046 | mg/Kg | | 07/19/24 08:44 | 07/22/24 20:54 | 1 |
| Xylenes, Total | ND | | 0.092 | mg/Kg | | 07/19/24 08:44 | 07/22/24 20:54 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 91 | | 48 - 145 | | | 07/19/24 08:44 | 07/22/24 20:54 | 1 |
| Method: SW846 8015M/D - Diese | I Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics [C10-C28] | ND | | 8.8 | mg/Kg | | 07/22/24 12:31 | 07/22/24 15:55 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 44 | mg/Kg | | 07/22/24 12:31 | 07/22/24 15:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 100 | | 62 - 134 | | | 07/22/24 12:31 | 07/22/24 15:55 | 1 |
| Method: EPA 300.0 - Anions, Ion | Chromatograp | hy | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | ND | | 60 | mg/Kg | | 07/22/24 13:36 | 07/22/24 21:41 | 20 |

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CS24-19 @ 1'

Date Collected: 07/16/24 11:39 Date Received: 07/18/24 07:08 Lab Sample ID: 885-8239-19

Matrix: Solid

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------------|----------------------|-------------------------|-------------------------|----------|--|--|--------------------------|
| Gasoline Range Organics | ND | | 4.9 | mg/Kg | | 07/19/24 08:44 | 07/22/24 21:17 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 96 | | 35 - 166 | | | 07/19/24 08:44 | 07/22/24 21:17 | 1 |
| Method: SW846 8021B - Volati | • | . , | | Unit | D | Prenared | Analyzed | Dil Fac |
| Method: SW846 8021B - Volati Analyte | • | ounds (GC) Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | • | . , | | Unit mg/Kg | <u>D</u> | Prepared 07/19/24 08:44 | Analyzed 07/22/24 21:17 | Dil Fac |
| Analyte | Result | . , | RL | | <u>D</u> | | | Dil Fac |
| Analyte Benzene | Result ND | . , | RL 0.024 | mg/Kg | <u>D</u> | 07/19/24 08:44 | 07/22/24 21:17 | Dil Fac 1 1 1 |
| Analyte Benzene Ethylbenzene | Result ND ND | . , | RL 0.024 0.049 | mg/Kg | <u>D</u> | 07/19/24 08:44 07/19/24 08:44 | 07/22/24 21:17 07/22/24 21:17 | Dil Fac 1 1 1 1 |
| Analyte Benzene Ethylbenzene Toluene | Result ND ND ND | Qualifier | 0.024 0.049 0.049 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/19/24 08:44 07/19/24 08:44 07/19/24 08:44 | 07/22/24 21:17 07/22/24 21:17 07/22/24 21:17 | Dil Fac 1 1 1 1 Dil Fac |

| wiethod: Sw646 6015W/D - Diese | i Kange Organi | ics (DKO) (| GC) | | | | | |
|------------------------------------|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics [C10-C28] | ND | | 9.7 | mg/Kg | | 07/22/24 12:31 | 07/22/24 16:06 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 48 | mg/Kg | | 07/22/24 12:31 | 07/22/24 16:06 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 100 | | 62 - 134 | | | 07/22/24 12:31 | 07/22/24 16:06 | 1 |
| | | | | | | | | |
| Method: EPA 300.0 - Anions. Ion | Chromatograp | hv | | | | | | |

| , | | | | | | | | |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | ND | | 60 | mg/Kg | | 07/22/24 13:36 | 07/22/24 21:56 | 20 |

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11

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CS24-20 @ 1'

Method: EPA 300.0 - Anions, Ion Chromatography

Result Qualifier

ND

Analyte

Chloride

Lab Sample ID: 885-8239-20

Matrix: Solid

Date Collected: 07/16/24 11:47 Date Received: 07/18/24 07:08

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | ND | | 4.8 | mg/Kg | | 07/19/24 08:44 | 07/22/24 21:40 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 101 | | 35 - 166 | | | 07/19/24 08:44 | 07/22/24 21:40 | 1 |
| Method: SW846 8021B - Volatile | Organic Comp | ounds (GC |) | | | | | |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.024 | mg/Kg | | 07/19/24 08:44 | 07/22/24 21:40 | 1 |
| Ethylbenzene | ND | | 0.048 | mg/Kg | | 07/19/24 08:44 | 07/22/24 21:40 | 1 |
| Toluene | ND | | 0.048 | mg/Kg | | 07/19/24 08:44 | 07/22/24 21:40 | 1 |
| Xylenes, Total | ND | | 0.095 | mg/Kg | | 07/19/24 08:44 | 07/22/24 21:40 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 94 | | 48 - 145 | | | 07/19/24 08:44 | 07/22/24 21:40 | 1 |
| Method: SW846 8015M/D - Diese | el Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics [C10-C28] | ND | | 9.3 | mg/Kg | | 07/22/24 12:31 | 07/22/24 16:17 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 46 | mg/Kg | | 07/22/24 12:31 | 07/22/24 16:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 100 | | 62 - 134 | | | 07/22/24 12:31 | 07/22/24 16:17 | 1 |

RL

60

Unit

mg/Kg

Prepared

07/22/24 13:36

Analyzed

07/22/24 22:11

Dil Fac

20

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CWS-01 @ 0-1'

Date Collected: 07/16/24 11:59 Date Received: 07/18/24 07:08 Lab Sample ID: 885-8239-21

Matrix: Solid

| | soline Range Org | | | | | | | |
|--------------------------------------|--------------------|------------|-------------------------|-------------------------|----------|--|--|-----------------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | ND | | 4.9 | mg/Kg | | 07/19/24 12:18 | 07/23/24 00:01 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99 | - | 35 - 166 | | | 07/19/24 12:18 | 07/23/24 00:01 | 1 |
| Method: SW846 8021B - Volati | • | , , | | | | | | |
| wiethod: 50046 60216 - voiati | ile Organic Comp | ounds (GC) | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared 07/10/24 12:19 | Analyzed | Dil Fac |
| Analyte Benzene | Result ND | , , | RL 0.024 | mg/Kg | <u>D</u> | 07/19/24 12:18 | 07/23/24 00:01 | Dil Fac |
| Analyte | Result ND ND | , , | RL 0.024 0.049 | | <u>D</u> | 07/19/24 12:18 07/19/24 12:18 | 07/23/24 00:01 07/23/24 00:01 | Dil Fac |
| Analyte Benzene | Result ND | , , | RL 0.024 | mg/Kg | <u>D</u> | 07/19/24 12:18 | 07/23/24 00:01 | Dil Fac 1 1 1 |
| Analyte Benzene Ethylbenzene | Result ND ND | , , | 0.024 0.049 | mg/Kg | <u>D</u> | 07/19/24 12:18 07/19/24 12:18 | 07/23/24 00:01 07/23/24 00:01 | Dil Fac 1 1 1 1 |
| Analyte Benzene Ethylbenzene Toluene | Result ND ND ND | Qualifier | 0.024 0.049 0.049 | mg/Kg mg/Kg mg/Kg | <u>D</u> | 07/19/24 12:18 07/19/24 12:18 07/19/24 12:18 | 07/23/24 00:01 07/23/24 00:01 07/23/24 00:01 | Dil Fac |

| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|---------------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | 32 | 9.7 | mg/Kg | | 07/22/24 12:31 | 07/22/24 16:28 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | 48 | mg/Kg | | 07/22/24 12:31 | 07/22/24 16:28 | 1 |
| Surrogate | %Recovery Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 104 | 62 - 134 | | | 07/22/24 12:31 | 07/22/24 16:28 | 1 |

| | Michiga. El A 000.0 - Allions, ion o | thou. Et A 000.0 - Amons, for officinatography | | | | | | | |
|---|--------------------------------------|--|-----------|----|-------|---|----------------|----------------|---------|
| | Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| L | Chloride | ND | | 60 | mg/Kg | | 07/22/24 14:36 | 07/22/24 17:24 | 20 |

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CWS-02 @ 0-1'

Date Collected: 07/16/24 12:09 Date Received: 07/18/24 07:08

Surrogate

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-8239-22

Analyzed

07/23/24 01:11

Dil Fac

Prepared

07/19/24 12:18

Matrix: Solid

| Method: SW846 8015M/D - Gas | soline Range Org | anics (GRC |)) (GC) | | | | | |
|-----------------------------------|------------------|------------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | ND | | 4.7 | mg/Kg | | 07/19/24 12:18 | 07/23/24 01:11 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 102 | | 35 - 166 | | | 07/19/24 12:18 | 07/23/24 01:11 | 1 |
| _ Method: SW846 8021B - Volati | ile Organic Comp | ounds (GC) | 1 | | | | | |
| Analyte | • | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.024 | mg/Kg | | 07/19/24 12:18 | 07/23/24 01:11 | 1 |
| Ethylbenzene | ND | | 0.047 | mg/Kg | | 07/19/24 12:18 | 07/23/24 01:11 | 1 |
| Toluene | ND | | 0.047 | mg/Kg | | 07/19/24 12:18 | 07/23/24 01:11 | 1 |
| | | | | | | | | |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | ND | | 9.1 | mg/Kg | | 07/22/24 12:31 | 07/22/24 16:39 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 46 | mg/Kg | | 07/22/24 12:31 | 07/22/24 16:39 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 101 | | 62 - 134 | | | 07/22/24 12:31 | 07/22/24 16:39 | 1 |

Limits

48 - 145

%Recovery Qualifier

96

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|---------------------------------|------------|-----------|----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | ND | | 60 | mg/Kg | | 07/22/24 14:36 | 07/22/24 17:36 | 20 |

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CWS-03 @ 0-1'

Date Collected: 07/16/24 12:18 Date Received: 07/18/24 07:08

Surrogate

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-8239-23

Analyzed

07/23/24 02:21

Dil Fac

Prepared

07/19/24 12:18

Matrix: Solid

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------------|-------------------------|---------------------|------------|----------|--------------------------|-------------------------|-------------------|
| Gasoline Range Organics | ND | | 5.0 | mg/Kg | | 07/19/24 12:18 | 07/23/24 02:21 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 99 | ounds (GC) | 35 ₋ 166 | | | 07/19/24 12:18 | 07/23/24 02:21 | 1 |
| 4-Bromofluorobenzene (Surr) Method: SW846 8021B - Volati Analyte | le Organic Compo | ounds (GC) Qualifier | | Unit | D | 07/19/24 12:18 Prepared | 07/23/24 02:21 Analyzed | 1 Dil Fac |
| Method: SW846 8021B - Volati | le Organic Compo | | | Unit mg/Kg | <u>D</u> | | | Dil Fac |
| Method: SW846 8021B - Volati Analyte | le Organic Compo | | RL | | <u>D</u> | Prepared | Analyzed | 1 Dil Fac 1 |
| Method: SW846 8021B - Volati Analyte Benzene | le Organic Compo | | RL 0.025 | mg/Kg | <u>D</u> | Prepared 07/19/24 12:18 | Analyzed 07/23/24 02:21 | 1 Dil Fac 1 1 1 1 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | ND | | 8.4 | mg/Kg | | 07/22/24 12:31 | 07/22/24 16:50 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 42 | mg/Kg | | 07/22/24 12:31 | 07/22/24 16:50 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 104 | | 62 - 134 | | | 07/22/24 12:31 | 07/22/24 16:50 | |

Limits

48 - 145

%Recovery Qualifier

93

| Method: EPA 300.0 - Anions, Ion Cl | nromatography | | | | | | |
|------------------------------------|---------------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result Qualif | fier RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | ND | 60 | mg/Kg | | 07/22/24 14:36 | 07/22/24 17:48 | 20 |

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CWS-04 @ 0-1'

Date Collected: 07/16/24 12:31 Date Received: 07/18/24 07:08

Surrogate

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-8239-24

Analyzed

07/23/24 02:45

Dil Fac

Prepared

07/19/24 12:18

Matrix: Solid

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|---------------------------------|-------------------------|----------|----------------------------|----------|-------------------------|-------------------------|---------------|
| Gasoline Range Organics | ND | | 4.6 | mg/Kg | | 07/19/24 12:18 | 07/23/24 02:45 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 95 | | 35 - 166 | | | 07/19/24 12:18 | 07/23/24 02:45 | |
| | | | | | | 01/13/24 12:10 | 01/20/24 02.40 | , |
| Method: SW846 8021B - Volati | le Organic Comp | ounds (GC) Qualifier | | Unit | D | Prepared | Analyzed | Dil Fac |
| Method: SW846 8021B - Volati | le Organic Comp | , , | | <mark>Unit</mark> mg/Kg | <u>D</u> | | | Dil Fac |
| Method: SW846 8021B - Volati Analyte Benzene | le Organic Comp | , , | RL | | <u>D</u> | Prepared | Analyzed | Dil Fac 1 |
| Method: SW846 8021B - Volati Analyte | le Organic Comp Result ND | , , | RL 0.023 | mg/Kg | <u>D</u> | Prepared 07/19/24 12:18 | Analyzed 07/23/24 02:45 | Dil Fac 1 1 1 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | ND | | 8.8 | mg/Kg | | 07/22/24 12:31 | 07/22/24 17:01 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 44 | mg/Kg | | 07/22/24 12:31 | 07/22/24 17:01 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 102 | | 62 - 134 | | | 07/22/24 12:31 | 07/22/24 17:01 | |

Limits

48 - 145

%Recovery Qualifier

90

| mothod: El A 000.0 Amono, ion o | momatograp | y | | | | | | |
|---------------------------------|------------|-----------|----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | ND | | 60 | mg/Kg | | 07/22/24 14:36 | 07/22/24 18:01 | 20 |

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CWS-05 @ 0-1'

Lab Sample ID: 885-8239-25

Matrix: Solid

Date Collected: 07/16/24 12:42 Date Received: 07/18/24 07:08

Analyte

Chloride

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|---------------|-------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | ND | | 4.8 | mg/Kg | | 07/19/24 12:18 | 07/23/24 03:08 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99 | | 35 - 166 | | | 07/19/24 12:18 | 07/23/24 03:08 | 1 |
| Method: SW846 8021B - Volatile | Organic Comp | ounds (GC) | | | | | | |
| Analyte | • | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.024 | mg/Kg | | 07/19/24 12:18 | 07/23/24 03:08 | 1 |
| Ethylbenzene | ND | | 0.048 | mg/Kg | | 07/19/24 12:18 | 07/23/24 03:08 | 1 |
| Toluene | ND | | 0.048 | mg/Kg | | 07/19/24 12:18 | 07/23/24 03:08 | 1 |
| Xylenes, Total | ND | | 0.096 | mg/Kg | | 07/19/24 12:18 | 07/23/24 03:08 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 94 | | 48 - 145 | | | 07/19/24 12:18 | 07/23/24 03:08 | 1 |
| Method: SW846 8015M/D - Diese | l Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics [C10-C28] | ND | | 8.3 | mg/Kg | | 07/22/24 12:31 | 07/22/24 17:11 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 42 | mg/Kg | | 07/22/24 12:31 | 07/22/24 17:11 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 100 | | 62 - 134 | | | 07/22/24 12:31 | 07/22/24 17:11 | 1 |

RL

60

Unit

mg/Kg

Prepared

07/22/24 14:36

Analyzed

07/22/24 18:13

Dil Fac

20

Result Qualifier

ND

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CWS-06 @ 0-1'

Lab Sample ID: 885-8239-26 Date Collected: 07/16/24 12:49

Result Qualifier

ND

Matrix: Solid

Date Received: 07/18/24 07:08

Analyte

Chloride

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|---------------|-------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | ND | | 4.9 | mg/Kg | | 07/19/24 12:18 | 07/23/24 03:31 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 100 | | 35 - 166 | | | 07/19/24 12:18 | 07/23/24 03:31 | 1 |
| Method: SW846 8021B - Volatile | Organic Comp | ounds (GC) |) | | | | | |
| Analyte | • | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.024 | mg/Kg | | 07/19/24 12:18 | 07/23/24 03:31 | 1 |
| Ethylbenzene | ND | | 0.049 | mg/Kg | | 07/19/24 12:18 | 07/23/24 03:31 | 1 |
| Toluene | ND | | 0.049 | mg/Kg | | 07/19/24 12:18 | 07/23/24 03:31 | 1 |
| Xylenes, Total | ND | | 0.098 | mg/Kg | | 07/19/24 12:18 | 07/23/24 03:31 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 95 | | 48 - 145 | | | 07/19/24 12:18 | 07/23/24 03:31 | 1 |
| Method: SW846 8015M/D - Diese | l Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics [C10-C28] | ND | | 9.5 | mg/Kg | | 07/22/24 12:31 | 07/22/24 17:22 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 48 | mg/Kg | | 07/22/24 12:31 | 07/22/24 17:22 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 102 | | 62 - 134 | | | 07/22/24 12:31 | 07/22/24 17:22 | 1 |

RL

60

Unit

mg/Kg

Prepared

07/22/24 14:36

Analyzed

07/22/24 18:25

Dil Fac

20

Client Sample Results

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Date Received: 07/18/24 07:08

Surrogate

4-Bromofluorobenzene (Surr)

Client Sample ID: CWS-07 @ 0-1'

Date Collected: 07/16/24 12:57

Lab Sample ID: 885-8239-27

Matrix: Solid

Prepared

07/19/24 12:18

Analyzed

07/23/24 03:55

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------------------------|------------|----------|---------------|----------|--------------------------|-------------------------|-------------------|
| Gasoline Range Organics | ND | | 4.6 | mg/Kg | | 07/19/24 12:18 | 07/23/24 03:55 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| | | | | | | | | |
| 4-Bromofluorobenzene (Surr) Method: SW846 8021B - Volati | 95 | ounds (GC) | 35 - 166 | | | 07/19/24 12:18 | 07/23/24 03:55 | 1 |
| | ile Organic Comp | ounds (GC) | | Unit | D | 07/19/24 12:18 Prepared | 07/23/24 03:55 Analyzed | 1 Dil Fac |
| Method: SW846 8021B - Volati | ile Organic Comp | . , | | Unit mg/Kg | <u>D</u> | | | Dil Fac |
| Method: SW846 8021B - Volati Analyte | ile Organic Comp | . , | RL | | <u>D</u> | Prepared | Analyzed | 1 Dil Fac |
| Method: SW846 8021B - Volati Analyte Benzene | ile Organic Comp Result ND | . , | RL 0.023 | mg/Kg | <u>D</u> | Prepared 07/19/24 12:18 | Analyzed 07/23/24 03:55 | 1 Dil Fac 1 1 1 1 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | ND | | 8.9 | mg/Kg | | 07/22/24 12:31 | 07/22/24 16:17 | 1 |
| Motor Oil Range Organics [C28-C40] | ND | | 45 | mg/Kg | | 07/22/24 12:31 | 07/22/24 16:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| Di-n-octyl phthalate (Surr) | 104 | | 62 - 134 | | | 07/22/24 12:31 | 07/22/24 16:17 | 1 |

Limits

48 - 145

%Recovery Qualifier

90

| mothod: El A 000.0 Amono, ion o | in omatograpi | • 9 | | | | | | |
|---------------------------------|---------------|-----------|----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | ND | | 60 | mg/Kg | | 07/22/24 14:36 | 07/22/24 18:38 | 20 |

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Dil Fac

Client Sample Results

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Client Sample ID: CWS-08 @ 0-1'

Date Collected: 07/16/24 13:08

Date Received: 07/18/24 07:08

Surrogate

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-8239-28

Analyzed

07/23/24 04:18

Prepared

07/19/24 12:18

Matrix: Solid

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------------------------|----------------------|---------------------|---------------|----------|--------------------------|-------------------------|-----------------|
| Gasoline Range Organics | ND | | 4.7 | mg/Kg | | 07/19/24 12:18 | 07/23/24 04:18 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| | | | | | | | | |
| 4-Bromofluorobenzene (Surr) Method: SW846 8021B - Volati | 98 | ounds (GC) | 35 - 166 | | | 07/19/24 12:18 | 07/23/24 04:18 | 1 |
| 4-Bromofluorobenzene (Surr) Method: SW846 8021B - Volati Analyte | ile Organic Comp | ounds (GC) Qualifier | 35 ₋ 166 | Unit | D | 07/19/24 12:18 Prepared | 07/23/24 04:18 Analyzed | Dil Fac |
| Method: SW846 8021B - Volati | ile Organic Comp | | | Unit mg/Kg | <u>D</u> | | | Dil Fac |
| Method: SW846 8021B - Volati Analyte | ile Organic Comp | | RL | | <u>D</u> | Prepared | Analyzed | 1 Dil Fac |
| Method: SW846 8021B - Volati Analyte Benzene | ile Organic Comp Result ND | | RL 0.024 | mg/Kg | <u>D</u> | Prepared 07/19/24 12:18 | Analyzed 07/23/24 04:18 | 1 Dil Fac 1 1 1 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28] | ND | | 9.2 | mg/Kg | | 07/22/24 12:31 | 07/22/24 16:41 | |
| Motor Oil Range Organics [C28-C40] | ND | | 46 | mg/Kg | | 07/22/24 12:31 | 07/22/24 16:41 | , |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| Di-n-octyl phthalate (Surr) | 102 | | 62 - 134 | | | 07/22/24 12:31 | 07/22/24 16:41 | |

Limits

48 - 145

%Recovery Qualifier

93

| mountain Environment variations, non e | oatog.up | | | | | | | |
|--|----------|-----------|----|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | ND | | 60 | mg/Kg | | 07/22/24 14:36 | 07/22/24 18:50 | 20 |

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8

9

Dil Fac

Prep Batch: 8747

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-8747/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Solid Analysis Batch: 8964

мв мв

Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Gasoline Range Organics ND 5.0 mg/Kg 07/19/24 08:44 07/22/24 11:54

(GRO)-C6-C10

MB MB

%Recovery Limits Qualifier Prepared Dil Fac Surrogate Analyzed 35 - 166 07/19/24 08:44 07/22/24 11:54 4-Bromofluorobenzene (Surr) 100

Lab Sample ID: LCS 885-8747/2-A

Matrix: Solid

Analysis Batch: 8964

Analyte

Gasoline Range Organics (GRO)-C6-C10

Surrogate

4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-8239-1 MS

Matrix: Solid Analysis Batch: 8964

Analyte

Gasoline Range Organics (GRO)-C6-C10

Surrogate 4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-8239-1 MSD

Matrix: Solid

Analysis Batch: 8964

Analyte Gasoline Range Organics

Surrogate

(GRO)-C6-C10

4-Bromofluorobenzene (Surr)

Lab Sample ID: MB 885-8787/1-A

Released to Imaging: 4/23/2025 2:19:30 PM

Matrix: Solid Analysis Batch: 8964

Gasoline Range Organics

LCS LCS Spike babbA Result Qualifier Unit D %Rec Limits 25.0 21.1 mg/Kg 84 70 - 130

Limits

LCS LCS

202 S1+

Sample Sample

MS MS

Sample Sample

Result

ND

MSD MSD

204 S1+

%Recovery

Qualifier

Qualifier

Qualifier

Qualifier

MB MB Result

ND

Qualifier

Result

%Recovery

ND

204 S1+

%Recovery Qualifier

35 - 166

Spike

Client Sample ID: CS24-01 @ 1'

Prep Type: Total/NA Prep Batch: 8747

Prep Type: Total/NA

Prep Batch: 8747

%Rec

Added Result Qualifier Unit D %Rec Limits 25.0 22.0 88 70 - 130 mg/Kg

Unit

mg/Kg

D

MS MS

MSD MSD

Qualifier

Result

22.4

Limits 35 - 166

Spike

Added

Limits

35 - 166

24.9

Client Sample ID: CS24-01 @ 1'

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8747 %Rec RPD

%Rec Limits **RPD** Limit 70 - 130 90

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 8787

Dil Fac

Unit Prepared 07/19/24 12:18 07/22/24 23:37 mg/Kg

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5.0

Limits

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Lab Sample ID: MB 885-8787/1-A

Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Matrix: Solid

Analysis Batch: 8964

4-Bromofluorobenzene (Surr)

Prep Type: Total/NA

Prep Batch: 8787

Dil Fac Prepared Analyzed

Client Sample ID: Method Blank

Lab Sample ID: LCS 885-8787/2-A

Matrix: Solid

Surrogate

Analysis Batch: 8964

35 - 166 07/19/24 12:18 07/22/24 23:37

> Client Sample ID: Lab Control Sample Prep Type: Total/NA

> > Client Sample ID: CWS-01 @ 0-1'

Prep Type: Total/NA

Prep Batch: 8787

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 25.0 20.7 mg/Kg 83 70 - 130

(GRO)-C6-C10

LCS LCS Surrogate

%Recovery Qualifier Limits 200 S1+ 35 - 166

MB MB %Recovery Qualifier

101

Lab Sample ID: 885-8239-21 MS Client Sample ID: CWS-01 @ 0-1' Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 8964

4-Bromofluorobenzene (Surr)

Prep Batch: 8787 Sample Sample Spike MS MS %Rec Qualifier Analyte Result Added Result Qualifier Unit %Rec Limits 21.2 Gasoline Range Organics ND 24.3 mg/Kg 87 70 - 130

(GRO)-C6-C10

MS MS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) S1+ 35 - 166 202

Lab Sample ID: 885-8239-21 MSD

Matrix: Solid

Analysis Batch: 8964

Prep Batch: 8787 MSD MSD Sample Sample Spike %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit ND 24.3 21.8 mg/Kg 90 70 - 130 Gasoline Range Organics

(GRO)-C6-C10

MSD MSD Surrogate %Recovery Qualifier Limits 202 S1+ 4-Bromofluorobenzene (Surr) 35 - 166

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-8747/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 8965 Prep Batch: 8747 мв мв

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 07/19/24 08:44 Benzene ND 0.025 mg/Kg 07/22/24 11:54 Ethylbenzene ND 0.050 07/19/24 08:44 07/22/24 11:54 mg/Kg 07/19/24 08:44 07/22/24 11:54 Toluene ND 0.050 mg/Kg 1 ND 07/19/24 08:44 07/22/24 11:54 Xylenes, Total 0.10 mg/Kg

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Lab Sample ID: MB 885-8747/1-A

Lab Sample ID: LCS 885-8747/3-A

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Matrix: Solid

Matrix: Solid

Analysis Batch: 8965

Analysis Batch: 8965

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8747

MB MB

 Surrogate
 %Recovery
 Qualifier
 Limits
 Prepared
 Analyzed
 Dil Fac

 4-Bromofluorobenzene (Surr)
 95
 48 - 145
 07/19/24 08:44
 07/22/24 11:54
 1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 8747

| | Spike | LCS | LCS | | | | %Rec | |
|---------------------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 1.00 | 0.925 | - | mg/Kg | | 92 | 70 - 130 | |
| Ethylbenzene | 1.00 | 0.867 | | mg/Kg | | 87 | 70 - 130 | |
| m-Xylene & p-Xylene | 2.00 | 1.73 | | mg/Kg | | 86 | 70 - 130 | |
| o-Xylene | 1.00 | 0.837 | | mg/Kg | | 84 | 70 - 130 | |
| Toluene | 1.00 | 0.872 | | mg/Kg | | 87 | 70 - 130 | |

LCS LCS

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 95
 48 - 145

Lab Sample ID: 885-8239-2 MS Client Sample ID: CS24-02 @ 1'

Matrix: Solid

Analysis Batch: 8965

Prep Type: Total/NA

Prep Batch: 8747

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | ND | | 0.999 | 0.907 | | mg/Kg | | 91 | 70 - 130 | |
| Ethylbenzene | ND | | 0.999 | 0.854 | | mg/Kg | | 85 | 70 - 130 | |
| m-Xylene & p-Xylene | ND | | 2.00 | 1.70 | | mg/Kg | | 84 | 70 - 130 | |
| o-Xylene | ND | | 0.999 | 0.828 | | mg/Kg | | 83 | 70 - 130 | |
| Toluene | ND | | 0.999 | 0.855 | | mg/Kg | | 84 | 70 - 130 | |
| | | | | | | | | | | |

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 94
 48 - 145

Lab Sample ID: 885-8239-2 MSD Client Sample ID: CS24-02 @ 1'

Matrix: Solid

Analysis Batch: 8965

Prep Type: Total/NA

Prep Batch: 8747

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|---------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | ND | | 0.995 | 0.927 | | mg/Kg | | 93 | 70 - 130 | 2 | 20 |
| Ethylbenzene | ND | | 0.995 | 0.869 | | mg/Kg | | 87 | 70 - 130 | 2 | 20 |
| m-Xylene & p-Xylene | ND | | 1.99 | 1.75 | | mg/Kg | | 87 | 70 - 130 | 3 | 20 |
| o-Xylene | ND | | 0.995 | 0.854 | | mg/Kg | | 86 | 70 - 130 | 3 | 20 |
| Toluene | ND | | 0.995 | 0.879 | | mg/Kg | | 87 | 70 - 130 | 3 | 20 |

| | MSD | MSD | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 4-Bromofluorobenzene (Surr) | 96 | | 48 - 145 |

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Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-8787/1-A **Matrix: Solid**

Analysis Batch: 8965

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8787

| | IVID | IVID | | | | | | |
|----------------|--------|-----------|-------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 0.025 | mg/Kg | | 07/19/24 12:18 | 07/22/24 23:37 | 1 |
| Ethylbenzene | ND | | 0.050 | mg/Kg | | 07/19/24 12:18 | 07/22/24 23:37 | 1 |
| Toluene | ND | | 0.050 | mg/Kg | | 07/19/24 12:18 | 07/22/24 23:37 | 1 |
| Xylenes, Total | ND | | 0.10 | mg/Kg | | 07/19/24 12:18 | 07/22/24 23:37 | 1 |
| | | | | | | | | |

MB MB

MD MD

Dil Fac Qualifier Limits Prepared Surrogate %Recovery Analyzed 4-Bromofluorobenzene (Surr) 94 48 - 145 07/19/24 12:18 07/22/24 23:37

Lab Sample ID: LCS 885-8787/3-A

Matrix: Solid

Analysis Batch: 8965

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 8787

| | Spike | LCS | LCS | | | | %Rec | |
|---------------------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 1.00 | 0.952 | | mg/Kg | | 95 | 70 - 130 | |
| Ethylbenzene | 1.00 | 0.901 | | mg/Kg | | 90 | 70 - 130 | |
| m-Xylene & p-Xylene | 2.00 | 1.79 | | mg/Kg | | 90 | 70 - 130 | |
| o-Xylene | 1.00 | 0.874 | | mg/Kg | | 87 | 70 - 130 | |
| Toluene | 1.00 | 0.907 | | mg/Kg | | 91 | 70 - 130 | |
| | | | | | | | | |

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 95 48 - 145

Lab Sample ID: 885-8239-22 MS

Matrix: Solid

Analysis Batch: 8965

Client Sample ID: CWS-02 @ 0-1'

Prep Type: Total/NA

Prep Batch: 8787

| • | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------------------|--------|-----------|-------|--------|-----------|---------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | ND | | 0.944 | 0.840 | | mg/Kg | | 89 | 70 - 130 | |
| Ethylbenzene | ND | | 0.944 | 0.778 | | mg/Kg | | 82 | 70 - 130 | |
| m-Xylene & p-Xylene | ND | | 1.89 | 1.59 | | mg/Kg | | 83 | 70 - 130 | |
| o-Xylene | ND | | 0.944 | 0.763 | | mg/Kg | | 81 | 70 - 130 | |
| Toluene | ND | | 0.944 | 0.780 | | mg/Kg | | 81 | 70 - 130 | |
| loidelle | ND | | 0.944 | 0.760 | | ilig/Kg | | 01 | 70 - 130 | |

MS MS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 48 - 145

Lab Sample ID: 885-8239-22 MSD

Matrix: Solid

Analysis Batch: 8965

Client Sample ID: CWS-02 @ 0-1'

Prep Type: Total/NA

Prep Batch: 8787

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|---------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | ND | | 0.943 | 0.812 | | mg/Kg | | 86 | 70 - 130 | 3 | 20 |
| Ethylbenzene | ND | | 0.943 | 0.772 | | mg/Kg | | 82 | 70 - 130 | 1 | 20 |
| m-Xylene & p-Xylene | ND | | 1.89 | 1.54 | | mg/Kg | | 80 | 70 - 130 | 3 | 20 |
| o-Xylene | ND | | 0.943 | 0.757 | | mg/Kg | | 80 | 70 - 130 | 1 | 20 |
| Toluene | ND | | 0.943 | 0.773 | | mg/Kg | | 81 | 70 - 130 | 1 | 20 |

Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Lab Sample ID: MB 885-8911/1-A

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-8239-22 MSD **Matrix: Solid**

Matrix: Solid

Analysis Batch: 8879

Client: Vertex

Analysis Batch: 8965

MSD MSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 93 48 - 145

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Client Sample ID: CWS-02 @ 0-1'

Prep Type: Total/NA

Prep Batch: 8787

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 8911

Prep Batch: 8911

MB MB Result

Qualifier RLUnit D Prepared Analyzed Dil Fac Analyte Diesel Range Organics [C10-C28] 07/22/24 11:58 ND 10 mg/Kg 07/22/24 12:42 Motor Oil Range Organics [C28-C40] ND 50 07/22/24 11:58 07/22/24 12:42 mg/Kg

MB MB

%Recovery Limits Qualifier Dil Fac Surrogate Prepared Analyzed 07/22/24 11:58 Di-n-octyl phthalate (Surr) 108 62 - 134 07/22/24 12:42

Lab Sample ID: LCS 885-8911/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 8879

Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits

Analyte Diesel Range Organics 50.0 52.4 105 60 - 135 mg/Kg

[C10-C28]

LCS LCS

Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 99 62 - 134

Lab Sample ID: 885-8239-13 MS Client Sample ID: CS24-13 @ 1'

Matrix: Solid

Analysis Batch: 8879

Prep Type: Total/NA Prep Batch: 8911

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Diesel Range Organics ND 44.7 47.3 mg/Kg 106 44 - 136

[C10-C28]

MS MS Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 106 62 - 134

Lab Sample ID: 885-8239-13 MSD Client Sample ID: CS24-13 @ 1'

Matrix: Solid

Analysis Batch: 8879

Released to Imaging: 4/23/2025 2:19:30 PM

Prep Batch: 8911

RPD Sample Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Diesel Range Organics ND 44.0 42.1 96 44 - 136 12 32 mg/Kg

[C10-C28]

MSD MSD

%Recovery Qualifier Limits Surrogate Di-n-octyl phthalate (Surr) 102 62 - 134

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Limits

60 - 135

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 8915

Prep Batch: 8915

Dil Fac

Job ID: 885-8239-1 Client: Vertex

Project/Site: Cotton Draw Unit 1-12

Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-8915/1-A

Matrix: Solid Analysis Batch: 8878

MB MB

Analyte Result Qualifier RLUnit D Prepared Analyzed Diesel Range Organics [C10-C28] ND 10 mg/Kg 07/22/24 12:31 07/22/24 14:41 Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 07/22/24 12:31 07/22/24 14:41

MB MB

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed Di-n-octyl phthalate (Surr) 97 62 - 134 07/22/24 12:31 07/22/24 14:41

RL

1.5

Spike

Added

Spike

Added

30.3

15.0

LCS LCS

Qualifier

Unit

mg/Kg

Unit

Unit

mg/Kg

mg/Kg

Unit

mg/Kg

D

D

%Rec

Prepared

07/22/24 13:36

%Rec

%Rec

NC

97

D

110

Result

55.2

Lab Sample ID: LCS 885-8915/2-A

Analysis Batch: 8878

Matrix: Solid

Analyte Diesel Range Organics

[C10-C28] LCS LCS

Surrogate Di-n-octyl phthalate (Surr) %Recovery Qualifier 98

мв мв

Qualifier

Result

Sample Sample

Qualifier

Result

ND

ND

Limits 62 - 134

Spike

Added

50.0

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-8927/1-A

Matrix: Solid

Analysis Batch: 8951

Analyte

Chloride

Lab Sample ID: LCS 885-8927/2-A **Matrix: Solid**

Analysis Batch: 8951

Analyte

Chloride Lab Sample ID: 885-8239-1 MS

Matrix: Solid

Analysis Batch: 8951

Analyte Chloride

Lab Sample ID: 885-8239-1 MSD

Matrix: Solid

Analysis Batch: 8951

Sample Sample Analyte Result Qualifier

ND Chloride

Spike Added 30.2

Result Qualifier ND

LCS LCS

MS MS

Result

ND

Qualifier

Qualifier

Result

14.6

MSD MSD

Unit

mg/Kg

%Rec NC

Limits 50 - 150

%Rec

50 - 150

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Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 8927

Dil Fac

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Analyzed

07/22/24 14:52

Prep Batch: 8927

%Rec

Limits

90 - 110

Prep Batch: 8927

RPD

RPD Limit 20

Prep Type: Total/NA

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 885-8239-2 MS Client Sample ID: CS24-02 @ 1' **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 8951

Prep Batch: 8927 Sample Sample Spike MS MS Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Chloride ND 30.1 ND mg/Kg NC 50 - 150

Lab Sample ID: 885-8239-2 MSD Client Sample ID: CS24-02 @ 1'

Matrix: Solid

| Analysis Batch: 8951 | | | | | | | | | Pre | ep Batch | : 8927 | |
|----------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|----------|--------|--|
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Chloride | ND | | 29.8 | ND | | mg/Kg | | NC | 50 - 150 | NC | 20 | |

Lab Sample ID: MB 885-8930/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 8949

Prep Type: Total/NA Prep Batch: 8930

мв мв

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride ND 1.5 07/22/24 14:36 07/22/24 16:59 mg/Kg

Lab Sample ID: LCS 885-8930/2-A Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 8949 Prep Batch: 8930 LCS LCS Spike %Rec

Analyte Added Result Qualifier Unit %Rec Limits Chloride 15.0 14.1 90 - 110 mg/Kg

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

GC VOA

Prep Batch: 8747

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 885-8239-1 | CS24-01 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-2 | CS24-02 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-3 | CS24-03 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-4 | CS24-04 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-5 | CS24-05 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-6 | CS24-06 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-7 | CS24-07 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-8 | CS24-08 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-9 | CS24-09 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-10 | CS24-10 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-11 | CS24-11 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-12 | CS24-12 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-13 | CS24-13 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-14 | CS24-14 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-15 | CS24-15 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-16 | CS24-16 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-17 | CS24-17 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-18 | CS24-18 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-19 | CS24-19 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-20 | CS24-20 @ 1' | Total/NA | Solid | 5030C | |
| MB 885-8747/1-A | Method Blank | Total/NA | Solid | 5030C | |
| LCS 885-8747/2-A | Lab Control Sample | Total/NA | Solid | 5030C | |
| LCS 885-8747/3-A | Lab Control Sample | Total/NA | Solid | 5030C | |
| 885-8239-1 MS | CS24-01 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-1 MSD | CS24-01 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-2 MS | CS24-02 @ 1' | Total/NA | Solid | 5030C | |
| 885-8239-2 MSD | CS24-02 @ 1' | Total/NA | Solid | 5030C | |

Prep Batch: 8787

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 885-8239-21 | CWS-01 @ 0-1' | Total/NA | Solid | 5030C | |
| 885-8239-22 | CWS-02 @ 0-1' | Total/NA | Solid | 5030C | |
| 885-8239-23 | CWS-03 @ 0-1' | Total/NA | Solid | 5030C | |
| 885-8239-24 | CWS-04 @ 0-1' | Total/NA | Solid | 5030C | |
| 885-8239-25 | CWS-05 @ 0-1' | Total/NA | Solid | 5030C | |
| 885-8239-26 | CWS-06 @ 0-1' | Total/NA | Solid | 5030C | |
| 885-8239-27 | CWS-07 @ 0-1' | Total/NA | Solid | 5030C | |
| 885-8239-28 | CWS-08 @ 0-1' | Total/NA | Solid | 5030C | |
| MB 885-8787/1-A | Method Blank | Total/NA | Solid | 5030C | |
| LCS 885-8787/2-A | Lab Control Sample | Total/NA | Solid | 5030C | |
| LCS 885-8787/3-A | Lab Control Sample | Total/NA | Solid | 5030C | |
| 885-8239-21 MS | CWS-01 @ 0-1' | Total/NA | Solid | 5030C | |
| 885-8239-21 MSD | CWS-01 @ 0-1' | Total/NA | Solid | 5030C | |
| 885-8239-22 MS | CWS-02 @ 0-1' | Total/NA | Solid | 5030C | |
| 885-8239-22 MSD | CWS-02 @ 0-1' | Total/NA | Solid | 5030C | |

Analysis Batch: 8964

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 885-8239-1 | CS24-01 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-2 | CS24-02 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-3 | CS24-03 @ 1' | Total/NA | Solid | 8015M/D | 8747 |

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Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

GC VOA (Continued)

Analysis Batch: 8964 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|---------|------------|
| 885-8239-4 | CS24-04 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-5 | CS24-05 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-6 | CS24-06 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-7 | CS24-07 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-8 | CS24-08 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-9 | CS24-09 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-10 | CS24-10 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-11 | CS24-11 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-12 | CS24-12 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-13 | CS24-13 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-14 | CS24-14 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-15 | CS24-15 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-16 | CS24-16 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-17 | CS24-17 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-18 | CS24-18 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-19 | CS24-19 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-20 | CS24-20 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-21 | CWS-01 @ 0-1' | Total/NA | Solid | 8015M/D | 8787 |
| 885-8239-22 | CWS-02 @ 0-1' | Total/NA | Solid | 8015M/D | 8787 |
| 885-8239-23 | CWS-03 @ 0-1' | Total/NA | Solid | 8015M/D | 8787 |
| 885-8239-24 | CWS-04 @ 0-1' | Total/NA | Solid | 8015M/D | 8787 |
| 885-8239-25 | CWS-05 @ 0-1' | Total/NA | Solid | 8015M/D | 8787 |
| 885-8239-26 | CWS-06 @ 0-1' | Total/NA | Solid | 8015M/D | 8787 |
| 885-8239-27 | CWS-07 @ 0-1' | Total/NA | Solid | 8015M/D | 8787 |
| 885-8239-28 | CWS-08 @ 0-1' | Total/NA | Solid | 8015M/D | 8787 |
| MB 885-8747/1-A | Method Blank | Total/NA | Solid | 8015M/D | 8747 |
| MB 885-8787/1-A | Method Blank | Total/NA | Solid | 8015M/D | 8787 |
| LCS 885-8747/2-A | Lab Control Sample | Total/NA | Solid | 8015M/D | 8747 |
| LCS 885-8787/2-A | Lab Control Sample | Total/NA | Solid | 8015M/D | 8787 |
| 885-8239-1 MS | CS24-01 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-1 MSD | CS24-01 @ 1' | Total/NA | Solid | 8015M/D | 8747 |
| 885-8239-21 MS | CWS-01 @ 0-1' | Total/NA | Solid | 8015M/D | 8787 |
| 885-8239-21 MSD | CWS-01 @ 0-1' | Total/NA | Solid | 8015M/D | 8787 |

Analysis Batch: 8965

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 885-8239-1 | CS24-01 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-2 | CS24-02 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-3 | CS24-03 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-4 | CS24-04 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-5 | CS24-05 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-6 | CS24-06 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-7 | CS24-07 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-8 | CS24-08 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-9 | CS24-09 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-10 | CS24-10 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-11 | CS24-11 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-12 | CS24-12 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-13 | CS24-13 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-14 | CS24-14 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-15 | CS24-15 @ 1' | Total/NA | Solid | 8021B | 8747 |

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Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

GC VOA (Continued)

Analysis Batch: 8965 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 885-8239-16 | CS24-16 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-17 | CS24-17 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-18 | CS24-18 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-19 | CS24-19 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-20 | CS24-20 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-21 | CWS-01 @ 0-1' | Total/NA | Solid | 8021B | 8787 |
| 885-8239-22 | CWS-02 @ 0-1' | Total/NA | Solid | 8021B | 8787 |
| 885-8239-23 | CWS-03 @ 0-1' | Total/NA | Solid | 8021B | 8787 |
| 885-8239-24 | CWS-04 @ 0-1' | Total/NA | Solid | 8021B | 8787 |
| 885-8239-25 | CWS-05 @ 0-1' | Total/NA | Solid | 8021B | 8787 |
| 885-8239-26 | CWS-06 @ 0-1' | Total/NA | Solid | 8021B | 8787 |
| 885-8239-27 | CWS-07 @ 0-1' | Total/NA | Solid | 8021B | 8787 |
| 885-8239-28 | CWS-08 @ 0-1' | Total/NA | Solid | 8021B | 8787 |
| MB 885-8747/1-A | Method Blank | Total/NA | Solid | 8021B | 8747 |
| MB 885-8787/1-A | Method Blank | Total/NA | Solid | 8021B | 8787 |
| LCS 885-8747/3-A | Lab Control Sample | Total/NA | Solid | 8021B | 8747 |
| LCS 885-8787/3-A | Lab Control Sample | Total/NA | Solid | 8021B | 8787 |
| 885-8239-2 MS | CS24-02 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-2 MSD | CS24-02 @ 1' | Total/NA | Solid | 8021B | 8747 |
| 885-8239-22 MS | CWS-02 @ 0-1' | Total/NA | Solid | 8021B | 8787 |
| 885-8239-22 MSD | CWS-02 @ 0-1' | Total/NA | Solid | 8021B | 8787 |

GC Semi VOA

Analysis Batch: 8875

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 885-8239-16 | CS24-16 @ 1' | Total/NA | Solid | 8015M/D | 8915 |
| 885-8239-17 | CS24-17 @ 1' | Total/NA | Solid | 8015M/D | 8915 |
| 885-8239-18 | CS24-18 @ 1' | Total/NA | Solid | 8015M/D | 8915 |
| 885-8239-19 | CS24-19 @ 1' | Total/NA | Solid | 8015M/D | 8915 |
| 885-8239-20 | CS24-20 @ 1' | Total/NA | Solid | 8015M/D | 8915 |
| 885-8239-21 | CWS-01 @ 0-1' | Total/NA | Solid | 8015M/D | 8915 |
| 885-8239-22 | CWS-02 @ 0-1' | Total/NA | Solid | 8015M/D | 8915 |
| 885-8239-23 | CWS-03 @ 0-1' | Total/NA | Solid | 8015M/D | 8915 |
| 885-8239-24 | CWS-04 @ 0-1' | Total/NA | Solid | 8015M/D | 8915 |
| 885-8239-25 | CWS-05 @ 0-1' | Total/NA | Solid | 8015M/D | 8915 |
| 885-8239-26 | CWS-06 @ 0-1' | Total/NA | Solid | 8015M/D | 8915 |

Analysis Batch: 8878

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|---------|------------|
| 885-8239-14 | CS24-14 @ 1' | Total/NA | Solid | 8015M/D | 8915 |
| 885-8239-15 | CS24-15 @ 1' | Total/NA | Solid | 8015M/D | 8915 |
| 885-8239-27 | CWS-07 @ 0-1' | Total/NA | Solid | 8015M/D | 8915 |
| 885-8239-28 | CWS-08 @ 0-1' | Total/NA | Solid | 8015M/D | 8915 |
| MB 885-8915/1-A | Method Blank | Total/NA | Solid | 8015M/D | 8915 |
| LCS 885-8915/2-A | Lab Control Sample | Total/NA | Solid | 8015M/D | 8915 |

Analysis Batch: 8879

Released to Imaging: 4/23/2025 2:19:30 PM

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 885-8239-1 | CS24-01 @ 1' | Total/NA | Solid | 8015M/D | 8911 |
| 885-8239-2 | CS24-02 @ 1' | Total/NA | Solid | 8015M/D | 8911 |

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Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

GC Semi VOA (Continued)

Analysis Batch: 8879 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|---------|------------|
| 885-8239-3 | CS24-03 @ 1' | Total/NA | Solid | 8015M/D | 8911 |
| 885-8239-4 | CS24-04 @ 1' | Total/NA | Solid | 8015M/D | 8911 |
| 885-8239-5 | CS24-05 @ 1' | Total/NA | Solid | 8015M/D | 8911 |
| 885-8239-6 | CS24-06 @ 1' | Total/NA | Solid | 8015M/D | 8911 |
| 885-8239-7 | CS24-07 @ 1' | Total/NA | Solid | 8015M/D | 8911 |
| 885-8239-8 | CS24-08 @ 1' | Total/NA | Solid | 8015M/D | 8911 |
| 885-8239-9 | CS24-09 @ 1' | Total/NA | Solid | 8015M/D | 8911 |
| 885-8239-10 | CS24-10 @ 1' | Total/NA | Solid | 8015M/D | 8911 |
| 885-8239-11 | CS24-11 @ 1' | Total/NA | Solid | 8015M/D | 8911 |
| 885-8239-12 | CS24-12 @ 1' | Total/NA | Solid | 8015M/D | 8911 |
| 885-8239-13 | CS24-13 @ 1' | Total/NA | Solid | 8015M/D | 8911 |
| MB 885-8911/1-A | Method Blank | Total/NA | Solid | 8015M/D | 8911 |
| LCS 885-8911/2-A | Lab Control Sample | Total/NA | Solid | 8015M/D | 8911 |
| 885-8239-13 MS | CS24-13 @ 1' | Total/NA | Solid | 8015M/D | 8911 |
| 885-8239-13 MSD | CS24-13 @ 1' | Total/NA | Solid | 8015M/D | 8911 |

Prep Batch: 8911

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batcl |
|------------------|--------------------|-----------|--------|--------|------------|
| 885-8239-1 | CS24-01 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-2 | CS24-02 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-3 | CS24-03 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-4 | CS24-04 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-5 | CS24-05 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-6 | CS24-06 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-7 | CS24-07 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-8 | CS24-08 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-9 | CS24-09 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-10 | CS24-10 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-11 | CS24-11 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-12 | CS24-12 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-13 | CS24-13 @ 1' | Total/NA | Solid | SHAKE | |
| MB 885-8911/1-A | Method Blank | Total/NA | Solid | SHAKE | |
| LCS 885-8911/2-A | Lab Control Sample | Total/NA | Solid | SHAKE | |
| 885-8239-13 MS | CS24-13 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-13 MSD | CS24-13 @ 1' | Total/NA | Solid | SHAKE | |

Prep Batch: 8915

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 885-8239-14 | CS24-14 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-15 | CS24-15 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-16 | CS24-16 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-17 | CS24-17 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-18 | CS24-18 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-19 | CS24-19 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-20 | CS24-20 @ 1' | Total/NA | Solid | SHAKE | |
| 885-8239-21 | CWS-01 @ 0-1' | Total/NA | Solid | SHAKE | |
| 885-8239-22 | CWS-02 @ 0-1' | Total/NA | Solid | SHAKE | |
| 885-8239-23 | CWS-03 @ 0-1' | Total/NA | Solid | SHAKE | |
| 885-8239-24 | CWS-04 @ 0-1' | Total/NA | Solid | SHAKE | |
| 885-8239-25 | CWS-05 @ 0-1' | Total/NA | Solid | SHAKE | |
| 885-8239-26 | CWS-06 @ 0-1' | Total/NA | Solid | SHAKE | |

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

GC Semi VOA (Continued)

Prep Batch: 8915 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 885-8239-27 | CWS-07 @ 0-1' | Total/NA | Solid | SHAKE | |
| 885-8239-28 | CWS-08 @ 0-1' | Total/NA | Solid | SHAKE | |
| MB 885-8915/1-A | Method Blank | Total/NA | Solid | SHAKE | |
| LCS 885-8915/2-A | Lab Control Sample | Total/NA | Solid | SHAKE | |

HPLC/IC

Prep Batch: 8927

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 885-8239-1 | CS24-01 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-2 | CS24-02 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-3 | CS24-03 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-4 | CS24-04 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-5 | CS24-05 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-6 | CS24-06 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-7 | CS24-07 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-8 | CS24-08 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-9 | CS24-09 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-10 | CS24-10 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-11 | CS24-11 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-12 | CS24-12 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-13 | CS24-13 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-14 | CS24-14 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-15 | CS24-15 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-16 | CS24-16 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-17 | CS24-17 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-18 | CS24-18 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-19 | CS24-19 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-20 | CS24-20 @ 1' | Total/NA | Solid | 300_Prep | |
| MB 885-8927/1-A | Method Blank | Total/NA | Solid | 300_Prep | |
| LCS 885-8927/2-A | Lab Control Sample | Total/NA | Solid | 300_Prep | |
| 885-8239-1 MS | CS24-01 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-1 MSD | CS24-01 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-2 MS | CS24-02 @ 1' | Total/NA | Solid | 300_Prep | |
| 885-8239-2 MSD | CS24-02 @ 1' | Total/NA | Solid | 300 Prep | |

Prep Batch: 8930

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|----------|------------|
| 885-8239-21 | CWS-01 @ 0-1' | Total/NA | Solid | 300_Prep | |
| 885-8239-22 | CWS-02 @ 0-1' | Total/NA | Solid | 300_Prep | |
| 885-8239-23 | CWS-03 @ 0-1' | Total/NA | Solid | 300_Prep | |
| 885-8239-24 | CWS-04 @ 0-1' | Total/NA | Solid | 300_Prep | |
| 885-8239-25 | CWS-05 @ 0-1' | Total/NA | Solid | 300_Prep | |
| 885-8239-26 | CWS-06 @ 0-1' | Total/NA | Solid | 300_Prep | |
| 885-8239-27 | CWS-07 @ 0-1' | Total/NA | Solid | 300_Prep | |
| 885-8239-28 | CWS-08 @ 0-1' | Total/NA | Solid | 300_Prep | |
| MB 885-8930/1-A | Method Blank | Total/NA | Solid | 300_Prep | |
| LCS 885-8930/2-A | Lab Control Sample | Total/NA | Solid | 300_Prep | |

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

HPLC/IC

Analysis Batch: 8949

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 885-8239-21 | CWS-01 @ 0-1' | Total/NA | Solid | 300.0 | 8930 |
| 885-8239-22 | CWS-02 @ 0-1' | Total/NA | Solid | 300.0 | 8930 |
| 885-8239-23 | CWS-03 @ 0-1' | Total/NA | Solid | 300.0 | 8930 |
| 885-8239-24 | CWS-04 @ 0-1' | Total/NA | Solid | 300.0 | 8930 |
| 885-8239-25 | CWS-05 @ 0-1' | Total/NA | Solid | 300.0 | 8930 |
| 885-8239-26 | CWS-06 @ 0-1' | Total/NA | Solid | 300.0 | 8930 |
| 885-8239-27 | CWS-07 @ 0-1' | Total/NA | Solid | 300.0 | 8930 |
| 885-8239-28 | CWS-08 @ 0-1' | Total/NA | Solid | 300.0 | 8930 |
| MB 885-8930/1-A | Method Blank | Total/NA | Solid | 300.0 | 8930 |
| LCS 885-8930/2-A | Lab Control Sample | Total/NA | Solid | 300.0 | 8930 |

Analysis Batch: 8951

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 885-8239-1 | CS24-01 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-2 | CS24-02 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-3 | CS24-03 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-4 | CS24-04 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-5 | CS24-05 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-6 | CS24-06 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-7 | CS24-07 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-8 | CS24-08 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-9 | CS24-09 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-10 | CS24-10 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-11 | CS24-11 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-12 | CS24-12 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-13 | CS24-13 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-14 | CS24-14 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-15 | CS24-15 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-16 | CS24-16 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-17 | CS24-17 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-18 | CS24-18 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-19 | CS24-19 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-20 | CS24-20 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| MB 885-8927/1-A | Method Blank | Total/NA | Solid | 300.0 | 8927 |
| LCS 885-8927/2-A | Lab Control Sample | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-1 MS | CS24-01 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-1 MSD | CS24-01 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-2 MS | CS24-02 @ 1' | Total/NA | Solid | 300.0 | 8927 |
| 885-8239-2 MSD | CS24-02 @ 1' | Total/NA | Solid | 300.0 | 8927 |

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Client Sample ID: CS24-01 @ 1'

Lab Sample ID: 885-8239-1

Matrix: Solid

Date Collected: 07/16/24 10:03 Date Received: 07/18/24 07:08

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/22/24 12:17 |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/22/24 12:17 |
| Total/NA | Prep | SHAKE | | | 8911 | KR | EET ALB | 07/22/24 11:58 |
| Total/NA | Analysis | 8015M/D | | 1 | 8879 | DH | EET ALB | 07/22/24 13:08 |
| Total/NA | Prep | 300_Prep | | | 8927 | MA | EET ALB | 07/22/24 13:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8951 | EH | EET ALB | 07/22/24 15:22 |

Client Sample ID: CS24-02 @ 1' Lab Sample ID: 885-8239-2

Date Collected: 07/16/24 10:09 **Matrix: Solid**

Date Received: 07/18/24 07:08

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/22/24 13:28 |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/22/24 13:28 |
| Total/NA | Prep | SHAKE | | | 8911 | KR | EET ALB | 07/22/24 11:58 |
| Total/NA | Analysis | 8015M/D | | 1 | 8879 | DH | EET ALB | 07/22/24 13:21 |
| Total/NA | Prep | 300_Prep | | | 8927 | MA | EET ALB | 07/22/24 13:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8951 | EH | EET ALB | 07/22/24 16:08 |

Client Sample ID: CS24-03 @ 1' Lab Sample ID: 885-8239-3

Date Collected: 07/16/24 10:13 Date Received: 07/18/24 07:08

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/22/24 14:38 |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/22/24 14:38 |
| Total/NA | Prep | SHAKE | | | 8911 | KR | EET ALB | 07/22/24 11:58 |
| Total/NA | Analysis | 8015M/D | | 1 | 8879 | DH | EET ALB | 07/22/24 13:34 |
| Total/NA | Prep | 300_Prep | | | 8927 | MA | EET ALB | 07/22/24 13:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8951 | EH | EET ALB | 07/22/24 16:53 |

Client Sample ID: CS24-04 @ 1' Lab Sample ID: 885-8239-4

Date Collected: 07/16/24 10:17 **Matrix: Solid**

Date Received: 07/18/24 07:08

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|---------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/22/24 15:02 |

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Matrix: Solid

Client Sample ID: CS24-04 @ 1'

Date Collected: 07/16/24 10:17

Lab Sample ID: 885-8239-4

Matrix: Solid

Date Received: 07/18/24 07:08

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/22/24 15:02 |
| Total/NA | Prep | SHAKE | | | 8911 | KR | EET ALB | 07/22/24 11:58 |
| Total/NA | Analysis | 8015M/D | | 1 | 8879 | DH | EET ALB | 07/22/24 13:47 |
| Total/NA | Prep | 300_Prep | | | 8927 | MA | EET ALB | 07/22/24 13:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8951 | EH | EET ALB | 07/22/24 17:08 |

Lab Sample ID: 885-8239-5

Matrix: Solid

Client Sample ID: CS24-05 @ 1' Date Collected: 07/16/24 10:21

Date Received: 07/18/24 07:08

| _ | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/22/24 15:25 |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/22/24 15:25 |
| Total/NA | Prep | SHAKE | | | 8911 | KR | EET ALB | 07/22/24 11:58 |
| Total/NA | Analysis | 8015M/D | | 1 | 8879 | DH | EET ALB | 07/22/24 14:00 |
| Total/NA | Prep | 300_Prep | | | 8927 | MA | EET ALB | 07/22/24 13:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8951 | EH | EET ALB | 07/22/24 17:54 |

Client Sample ID: CS24-06 @ 1'

Date Collected: 07/16/24 10:24

Date Received: 07/18/24 07:08

| Lab Sample | ID: 885-8239-6 |
|------------|----------------|
|------------|----------------|

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/22/24 15:49 |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/22/24 15:49 |
| Total/NA | Prep | SHAKE | | | 8911 | KR | EET ALB | 07/22/24 11:58 |
| Total/NA | Analysis | 8015M/D | | 1 | 8879 | DH | EET ALB | 07/22/24 14:13 |
| Total/NA | Prep | 300_Prep | | | 8927 | MA | EET ALB | 07/22/24 13:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8951 | EH | EET ALB | 07/22/24 18:09 |

Client Sample ID: CS24-07 @ 1'

Date Collected: 07/16/24 10:32

Date Received: 07/18/24 07:08

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|---------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/22/24 16:12 |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/22/24 16:12 |

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Matrix: Solid

Client Sample ID: CS24-07 @ 1'

Date Collected: 07/16/24 10:32

Date Received: 07/18/24 07:08

Lab Sample ID: 885-8239-7

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | SHAKE | | | 8911 | KR | EET ALB | 07/22/24 11:58 |
| Total/NA | Analysis | 8015M/D | | 1 | 8879 | DH | EET ALB | 07/22/24 14:26 |
| Total/NA | Prep | 300_Prep | | | 8927 | MA | EET ALB | 07/22/24 13:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8951 | EH | EET ALB | 07/22/24 18:24 |

Client Sample ID: CS24-08 @ 1'

Date Collected: 07/16/24 10:38 Date Received: 07/18/24 07:08 Lab Sample ID: 885-8239-8

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/22/24 16:36 |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/22/24 16:36 |
| Total/NA | Prep | SHAKE | | | 8911 | KR | EET ALB | 07/22/24 11:58 |
| Total/NA | Analysis | 8015M/D | | 1 | 8879 | DH | EET ALB | 07/22/24 14:39 |
| Total/NA | Prep | 300_Prep | | | 8927 | MA | EET ALB | 07/22/24 13:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8951 | EH | EET ALB | 07/22/24 18:39 |

Client Sample ID: CS24-09 @ 1'

Date Collected: 07/16/24 10:49 Date Received: 07/18/24 07:08 Lab Sample ID: 885-8239-9

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/22/24 16:59 |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/22/24 16:59 |
| Total/NA | Prep | SHAKE | | | 8911 | KR | EET ALB | 07/22/24 11:58 |
| Total/NA | Analysis | 8015M/D | | 1 | 8879 | DH | EET ALB | 07/22/24 14:52 |
| Total/NA | Prep | 300_Prep | | | 8927 | MA | EET ALB | 07/22/24 13:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8951 | EH | EET ALB | 07/22/24 18:54 |

Client Sample ID: CS24-10 @ 1'

Date Collected: 07/16/24 10:54

Date Received: 07/18/24 07:08

Lab Sample ID: 885-8239-10

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|---------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/22/24 17:23 |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/22/24 17:23 |
| Total/NA | Prep | SHAKE | | | 8911 | KR | EET ALB | 07/22/24 11:58 |
| Total/NA | Analysis | 8015M/D | | 1 | 8879 | DH | EET ALB | 07/22/24 15:05 |

Client Sample ID: CS24-10 @ 1'

Date Collected: 07/16/24 10:54 Date Received: 07/18/24 07:08 Lab Sample ID: 885-8239-10

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 300_Prep | | | 8927 | MA | EET ALB | 07/22/24 13:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8951 | EH | EET ALB | 07/22/24 19:09 |

Client Sample ID: CS24-11 @ 1'

Lab Sample ID: 885-8239-11

Date Collected: 07/16/24 11:05 Date Received: 07/18/24 07:08 **Matrix: Solid**

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/22/24 18:10 |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/22/24 18:10 |
| Total/NA | Prep | SHAKE | | | 8911 | KR | EET ALB | 07/22/24 11:58 |
| Total/NA | Analysis | 8015M/D | | 1 | 8879 | DH | EET ALB | 07/22/24 15:19 |
| Total/NA | Prep | 300_Prep | | | 8927 | MA | EET ALB | 07/22/24 13:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8951 | EH | EET ALB | 07/22/24 19:25 |

Client Sample ID: CS24-12 @ 1'

Lab Sample ID: 885-8239-12

Matrix: Solid

Date Collected: 07/16/24 11:05 Date Received: 07/18/24 07:08

| lumber 8747 | Analyst | Lab | or Analyzed |
|----------------|---------|---------|-----------------|
| 8747 | | | OI AIIAIYZEU |
| | AT | EET ALB | 07/19/24 08:44 |
| 8964 | JP | EET ALB | 07/22/24 18:33 |
| 8747 | AT | EET ALB | 07/19/24 08:44 |
| 8965 | JP | EET ALB | 07/22/24 18:33 |
| 8911 | KR | EET ALB | 07/22/24 11:58 |
| 8879 | DH | EET ALB | 07/22/24 15:32 |
| 8927 | MA | EET ALB | 07/22/24 13:36 |
| 8951 | EH | EET ALB | 07/22/24 19:40 |
| | 8927 | | 8927 MA EET ALB |

Client Sample ID: CS24-13 @ 1'

Lab Sample ID: 885-8239-13

Matrix: Solid

Date Collected: 07/16/24 11:10 Date Received: 07/18/24 07:08

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/22/24 18:57 |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/22/24 18:57 |
| Total/NA | Prep | SHAKE | | | 8911 | KR | EET ALB | 07/22/24 11:58 |
| Total/NA | Analysis | 8015M/D | | 1 | 8879 | DH | EET ALB | 07/22/24 15:45 |
| Total/NA | Prep | 300_Prep | | | 8927 | MA | EET ALB | 07/22/24 13:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8951 | EH | EET ALB | 07/22/24 19:55 |

Client Sample ID: CS24-14 @ 1'

Date Collected: 07/16/24 11:15 Date Received: 07/18/24 07:08

Lab Sample ID: 885-8239-14

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/22/24 19:20 |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/22/24 19:20 |
| Total/NA | Prep | SHAKE | | | 8915 | DH | EET ALB | 07/22/24 12:31 |
| Total/NA | Analysis | 8015M/D | | 1 | 8878 | DH | EET ALB | 07/22/24 15:29 |
| Total/NA | Prep | 300_Prep | | | 8927 | MA | EET ALB | 07/22/24 13:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8951 | EH | EET ALB | 07/22/24 20:10 |

Client Sample ID: CS24-15 @ 1'

Date Collected: 07/16/24 11:18

Date Received: 07/18/24 07:08

Lab Sample ID: 885-8239-15

Matrix: Solid

Batch Dilution Batch Batch Prepared **Prep Type** Type Method Run Factor Number Analyst Lab or Analyzed Total/NA 5030C EET ALB 07/19/24 08:44 Prep 8747 ΑT Total/NA 8015M/D 07/22/24 19:44 Analysis 1 8964 JΡ **EET ALB** Total/NA 5030C Prep 8747 AT **EET ALB** 07/19/24 08:44 Total/NA Analysis 8021B 1 8965 JΡ **EET ALB** 07/22/24 19:44 Total/NA SHAKE **EET ALB** 07/22/24 12:31 Prep 8915 DH Total/NA Analysis 8015M/D 1 8878 DH **EET ALB** 07/22/24 15:53 EET ALB Total/NA Prep 300_Prep 8927 MA 07/22/24 13:36 Total/NA Analysis 300.0 20 8951 EH **EET ALB** 07/22/24 20:55

Client Sample ID: CS24-16 @ 1'

Date Collected: 07/16/24 11:24

Date Received: 07/18/24 07:08

Lab Sample ID: 885-8239-16

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/22/24 20:07 |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/22/24 20:07 |
| Total/NA | Prep | SHAKE | | | 8915 | DH | EET ALB | 07/22/24 12:31 |
| Total/NA | Analysis | 8015M/D | | 1 | 8875 | KR | EET ALB | 07/22/24 15:33 |
| Total/NA | Prep | 300_Prep | | | 8927 | MA | EET ALB | 07/22/24 13:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8951 | EH | EET ALB | 07/22/24 21:11 |

Client Sample ID: CS24-17 @ 1'

Date Collected: 07/16/24 11:29

Date Received: 07/18/24 07:08

| Lab Sam | ple ID | : 885-8 | 239-17 |
|---------|--------|---------|--------|
|---------|--------|---------|--------|

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|---------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/22/24 20:30 |

20

8927 MA

8951 EH

EET ALB

EET ALB

Client: Vertex

Total/NA

Total/NA

Client Sample ID: CS24-17 @ 1'

Date Collected: 07/16/24 11:29 Date Received: 07/18/24 07:08 Lab Sample ID: 885-8239-17

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed 5030C 07/19/24 08:44 Total/NA Prep 8747 AT EET ALB 8021B Total/NA Analysis 1 8965 JP **EET ALB** 07/22/24 20:30 Total/NA Prep SHAKE 8915 DH **EET ALB** 07/22/24 12:31 8015M/D 8875 KR Total/NA Analysis 1 **EET ALB** 07/22/24 15:44

Lab Sample ID: 885-8239-18

07/22/24 13:36

07/22/24 21:26

Matrix: Solid

Client Sample ID: CS24-18 @ 1'

Prep

Analysis

300 Prep

300.0

Date Collected: 07/16/24 11:34 Date Received: 07/18/24 07:08

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/22/24 20:54 |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/22/24 20:54 |
| Total/NA | Prep | SHAKE | | | 8915 | DH | EET ALB | 07/22/24 12:31 |
| Total/NA | Analysis | 8015M/D | | 1 | 8875 | KR | EET ALB | 07/22/24 15:55 |
| Total/NA | Prep | 300_Prep | | | 8927 | MA | EET ALB | 07/22/24 13:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8951 | EH | EET ALB | 07/22/24 21:41 |

Client Sample ID: CS24-19 @ 1'

Date Collected: 07/16/24 11:39

Date Received: 07/18/24 07:08

Lab Sample ID: 885-8239-19

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/22/24 21:17 |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/22/24 21:17 |
| Total/NA | Prep | SHAKE | | | 8915 | DH | EET ALB | 07/22/24 12:31 |
| Total/NA | Analysis | 8015M/D | | 1 | 8875 | KR | EET ALB | 07/22/24 16:06 |
| Total/NA | Prep | 300_Prep | | | 8927 | MA | EET ALB | 07/22/24 13:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8951 | EH | EET ALB | 07/22/24 21:56 |

Client Sample ID: CS24-20 @ 1'

Date Collected: 07/16/24 11:47

Date Received: 07/18/24 07:08

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|---------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/22/24 21:40 |
| Total/NA | Prep | 5030C | | | 8747 | AT | EET ALB | 07/19/24 08:44 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/22/24 21:40 |

Client Sample ID: CS24-20 @ 1'

Date Collected: 07/16/24 11:47

Date Received: 07/18/24 07:08

Lab Sample ID: 885-8239-20

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | SHAKE | | | 8915 | DH | EET ALB | 07/22/24 12:31 |
| Total/NA | Analysis | 8015M/D | | 1 | 8875 | KR | EET ALB | 07/22/24 16:17 |
| Total/NA | Prep | 300_Prep | | | 8927 | MA | EET ALB | 07/22/24 13:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8951 | EH | EET ALB | 07/22/24 22:11 |

Client Sample ID: CWS-01 @ 0-1'

Date Collected: 07/16/24 11:59

Date Received: 07/18/24 07:08

Lab Sample ID: 885-8239-21

Matrix: Solid

Batch Batch Dilution Batch Prepared or Analyzed **Prep Type** Туре Method Run Factor Number Analyst Lab Total/NA 5030C 8787 JP EET ALB 07/19/24 12:18 Prep Total/NA 8015M/D 07/23/24 00:01 Analysis 8964 JP **EET ALB** 1 Total/NA Prep 5030C 8787 JΡ **EET ALB** 07/19/24 12:18 8021B Total/NA JΡ **EET ALB** 07/23/24 00:01 Analysis 1 8965 Total/NA SHAKE **EET ALB** 07/22/24 12:31 Prep 8915 DH Total/NA Analysis 8015M/D KR **EET ALB** 07/22/24 16:28 1 8875 Total/NA **EET ALB** 07/22/24 14:36 Prep 300 Prep 8930 KΒ 8949 RC Total/NA Analysis 300.0 20 **EET ALB** 07/22/24 17:24

Client Sample ID: CWS-02 @ 0-1'

Date Collected: 07/16/24 12:09

Date Received: 07/18/24 07:08

Lab Sample ID: 885-8239-22

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-------------|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8787 | JP | EET ALB | 07/19/24 12:18 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/23/24 01:11 |
| Total/NA | Prep | 5030C | | | 8787 | JP | EET ALB | 07/19/24 12:18 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/23/24 01:11 |
| Total/NA | Prep | SHAKE | | | 8915 | DH | EET ALB | 07/22/24 12:31 |
| Total/NA | Analysis | 8015M/D | | 1 | 8875 | KR | EET ALB | 07/22/24 16:39 |
| Total/NA | Prep | 300_Prep | | | 8930 | KB | EET ALB | 07/22/24 14:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8949 | RC | EET ALB | 07/22/24 17:36 |

Client Sample ID: CWS-03 @ 0-1'

Date Collected: 07/16/24 12:18

Date Received: 07/18/24 07:08

Lab Sample ID: 885-8239-23

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|---------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8787 | JP | EET ALB | 07/19/24 12:18 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/23/24 02:21 |
| Total/NA | Prep | 5030C | | | 8787 | JP | EET ALB | 07/19/24 12:18 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/23/24 02:21 |
| Total/NA | Prep | SHAKE | | | 8915 | DH | EET ALB | 07/22/24 12:31 |
| Total/NA | Analysis | 8015M/D | | 1 | 8875 | KR | EET ALB | 07/22/24 16:50 |

Client Sample ID: CWS-03 @ 0-1'

Date Collected: 07/16/24 12:18 Date Received: 07/18/24 07:08 Lab Sample ID: 885-8239-23

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 300_Prep | | | 8930 | KB | EET ALB | 07/22/24 14:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8949 | RC | EET ALB | 07/22/24 17:48 |

Client Sample ID: CWS-04 @ 0-1'

Date Collected: 07/16/24 12:31 Date Received: 07/18/24 07:08 Lab Sample ID: 885-8239-24

Matrix: Solid

| _ | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|---------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8787 | JP | EET ALB | 07/19/24 12:18 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/23/24 02:45 |
| Total/NA | Prep | 5030C | | | 8787 | JP | EET ALB | 07/19/24 12:18 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/23/24 02:45 |
| Total/NA | Prep | SHAKE | | | 8915 | DH | EET ALB | 07/22/24 12:31 |

1

20

Client Sample ID: CWS-05 @ 0-1'

Analysis

Analysis

Prep

8015M/D

300 Prep

300.0

Date Collected: 07/16/24 12:42

Total/NA

Total/NA

Total/NA

Date Received: 07/18/24 07:08

Lab Sample ID: 885-8239-25

07/22/24 17:01

07/22/24 14:36

07/22/24 18:01

EET ALB

EET ALB

EET ALB

8875 KR

8930 KB

8949 RC

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8787 | JP | EET ALB | 07/19/24 12:18 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/23/24 03:08 |
| Total/NA | Prep | 5030C | | | 8787 | JP | EET ALB | 07/19/24 12:18 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/23/24 03:08 |
| Total/NA | Prep | SHAKE | | | 8915 | DH | EET ALB | 07/22/24 12:31 |
| Total/NA | Analysis | 8015M/D | | 1 | 8875 | KR | EET ALB | 07/22/24 17:11 |
| Total/NA | Prep | 300_Prep | | | 8930 | KB | EET ALB | 07/22/24 14:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8949 | RC | EET ALB | 07/22/24 18:13 |

Client Sample ID: CWS-06 @ 0-1'

Date Collected: 07/16/24 12:49

Date Received: 07/18/24 07:08

Lab Sample ID: 885-8239-26

Matrix: Solid

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|-----------------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | - - | 8787 | JP | EET ALB | 07/19/24 12:18 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/23/24 03:31 |
| Total/NA | Prep | 5030C | | | 8787 | JP | EET ALB | 07/19/24 12:18 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/23/24 03:31 |
| Total/NA | Prep | SHAKE | | | 8915 | DH | EET ALB | 07/22/24 12:31 |
| Total/NA | Analysis | 8015M/D | | 1 | 8875 | KR | EET ALB | 07/22/24 17:22 |
| Total/NA | Prep | 300_Prep | | | 8930 | KB | EET ALB | 07/22/24 14:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8949 | RC | EET ALB | 07/22/24 18:25 |

Client Sample ID: CWS-07 @ 0-1'

Lab Sample ID: 885-8239-27 Date Collected: 07/16/24 12:57

Matrix: Solid

Date Received: 07/18/24 07:08

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8787 | JP | EET ALB | 07/19/24 12:18 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/23/24 03:55 |
| Total/NA | Prep | 5030C | | | 8787 | JP | EET ALB | 07/19/24 12:18 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/23/24 03:55 |
| Total/NA | Prep | SHAKE | | | 8915 | DH | EET ALB | 07/22/24 12:31 |
| Total/NA | Analysis | 8015M/D | | 1 | 8878 | DH | EET ALB | 07/22/24 16:17 |
| Total/NA | Prep | 300_Prep | | | 8930 | KB | EET ALB | 07/22/24 14:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8949 | RC | EET ALB | 07/22/24 18:38 |

Client Sample ID: CWS-08 @ 0-1'

Lab Sample ID: 885-8239-28

Matrix: Solid

Date Collected: 07/16/24 13:08 Date Received: 07/18/24 07:08

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Prep | 5030C | | | 8787 | JP | EET ALB | 07/19/24 12:18 |
| Total/NA | Analysis | 8015M/D | | 1 | 8964 | JP | EET ALB | 07/23/24 04:18 |
| Total/NA | Prep | 5030C | | | 8787 | JP | EET ALB | 07/19/24 12:18 |
| Total/NA | Analysis | 8021B | | 1 | 8965 | JP | EET ALB | 07/23/24 04:18 |
| Total/NA | Prep | SHAKE | | | 8915 | DH | EET ALB | 07/22/24 12:31 |
| Total/NA | Analysis | 8015M/D | | 1 | 8878 | DH | EET ALB | 07/22/24 16:41 |
| Total/NA | Prep | 300_Prep | | | 8930 | KB | EET ALB | 07/22/24 14:36 |
| Total/NA | Analysis | 300.0 | | 20 | 8949 | RC | EET ALB | 07/22/24 18:50 |

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Vertex Job ID: 885-8239-1

Project/Site: Cotton Draw Unit 1-12

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Prog | ram | Identification Number | Expiration Date |
|-----------------|--|---------------------------------|--|-------------------------|
| New Mexico | State | | NM9425, NM0901 | 02-26-25 |
| • , | are included in this report, boos not offer certification. | ut the laboratory is not certif | ied by the governing authority. This lie | st may include analytes |
| Analysis Method | Prep Method | Matrix | Analyte | |
| 300.0 | 300_Prep | Solid | Chloride | |
| 8015M/D | 5030C | Solid | Gasoline Range Organics | (GRO)-C6-C10 |
| 8015M/D | SHAKE | Solid | Diesel Range Organics [C | C10-C28] |
| 8015M/D | SHAKE | Solid | Motor Oil Range Organics | [C28-C40] |
| 8021B | 5030C | Solid | Benzene | |
| 8021B | 5030C | Solid | Ethylbenzene | |
| 8021B | 5030C | Solid | Toluene | |
| 8021B | 5030C | Solid | Xylenes, Total | |
| Oregon | NELA | AP | NM100001 | 02-26-25 |

Eurofins Albuquerque

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| Nec 1 | ervet Es | l by c | 200 867 | | | 202 | | | | AN | | | | | | | | | | | | | | | | | | Pag |
|--|-----------------------|---------|--|---|------------------|------------------|---|---|---|-----------|---------------|---|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|--------------|---------------------------------------|------------------------|--------------|
| NO COLUMN TO THE PARTY OF THE P | ANALYSIS LABC | tal.com | 4901 Hawkins NE - Albuquerque, NM 87 100 | Tel. 505-345-3975 Fax 505-345-4107 3759 | Analysis Request | 20' | O¢' | O S O S O S O S O S O S O S O S O S O S | () () () () () () () () () () | OP | od (G | 15[estideth by 83 8 Mi 8 Mi 3r, | BTEX / TPH:80 8081 Pi EDB (M PPHs E CI, F, E 8250 (/ 8270 (S | × | | | | | | | | | | | → | Remarks: WO# 2RP-5637 Dale Woodall | | <i>M</i> |
| | h 6 0am | | | | | | Chad Hensl∈ Chensley@vertexresource.com | e.com | Je Je | □ No Von: | | 1-0-1-2-0-1 | e HEAL No. | | 2 | C | 7 | 5 | و | ١ | Q | 6 | 01 | 1 | 11 | Date Time | | 72/18/LY |
| Turn-Around Time: | Standard Rush | ai | Cotton Draw Unit 1-12 | t #: | 2423 | Project Manager: | Hensle Chensley | Rplogger@vertexresource.com | er: Riley Plogger | | oolers: 1 | Cooler Temp(including CF): 2, | ner Preservative | 1, 40z jar | | | | | | | | | | | -> - | d by: Via: | Received by: Via Count | |
| Turn-A | St | Project | Cottor | Project #: | 23E-02423 | Projec | Chad | | | On Ice: | # of Coolers: | Cooler | Container Type and | 1, 40 | | | | | | | | | | | -> | Received by | Receive | |
| Chain-of-Custody Record | von) | | E Bender Blud | NW | | | | ☐ Level 4 (Full Validation) | Az Compliance | | | | Sample Name | CS24-01 @ 1' | CS24-02 @ 1' | CS24-03 @ 1' | CS24-04 @ 1' | CS24-05 @ 1' | CS24-06 @ 1' | CS24-07 @ 1' | CS24-08 @ 1' | CS24-09 @ 1' | CS24-10 @ 1' | CS24-10@1'@ | CS24-11 @ 1' | ed by: | ed by: | 1900 alumino |
| of-Cu: | Vertex(Bill to Devon) | , 'د | | | | | | | □ Az Cor | □ Other | | | Matrix | Soil | , | _ | | | | | | | | | •> | Relinquished by | Relinquished by: | Chum |
| hain- | Vertex(| | \ddress: | 10/4 | | Fax#: | ackage: | lard | ation: | Ç | (Type) | | Time | 10:03 | 10:09 | 10:13 | 10:17 | 10:21 | 10:24 | 10:32 | 10:38 | 10:49 | 10:54 | 10:59 | 11:05 | Time: | Time: | 1900 |
| O | Client: | | Mailing Address: 205 | | Phone #: | email or Fax#: | QA/QC Package: | □ Standard | Accreditation: | □ NELAC | ☐ EDD (Type) | | Date | 7.16.24 | 7.16.24 | 7.16.24 | 7.16.24 | 7.16.24 | 7.16.24 | 7.16.24 | 7.16.24 | 7.16.24 | 7.16.24 | 7.16.24 | 7.16.24 | Date: | Date: | hdul, |

| | hain | Of-C | Chain-of-Custody Record | Turn-Around | d Time: | | | | | б | 5 |) | | Ī | K |
|----------------|----------------------|------------------|---------------------------------------|------------------------------|-----------------------------|--|--------------|------------------|-----------------|--------------|-----------------|--------------------|--|--------------|-----------|
| Clont | 3 | 5 | stoay ivecola | | | | | | I | ALL | Ш | M | ENVIRONMENT | MEN | AL |
| | | Vertex (| Vertex (Bill to Devon) | □ Standard | | Rush 6 Day | | П | 4 | ANA | ALYSIS | IS | ABO | RAT | ABORATORY |
| | | | | Project Name | ioi | • | | | > | ww.ha | llenvi | onme | www.hallenvironmental.com | | by C |
| Mailing | Mailing Address: 305 | | E Bender B1Vd | Cotton Draw Unit 1-12 | v Unit 1-12 | | , | 4901 Hawkins NE | lawkir | s NE | - Albı | ıdnerc | Albuquerque, NM 87109 | 7109 | CD |
| | Hopps | S. 1/m | | Project #: | | : | | Tel. 5 | 5-34 | 505-345-3975 | ш | Fax 50 | 505-345-4107 | | 8339 |
| Phone # | 44 | | | 23E-02423 | | | | | | , | Analysis | sis Re | Request | | /20/ |
| email or Fax#: | Fax#: | | | Project Manager | ager: | Chad Hensley | | | | _ | os | | ent | | 202 |
| QA/QC F | QA/QC Package: | | | Chensley@v | Chensley@vertexresource.com | com | | | | SWI | '¢O | | sdA | | 4-10 |
| □ Standard | dard | | ☐ Level 4 (Full Validation) | Rplogger@v | Rploqqer@vertexresource.com | com | | | | S0 | d ' | | ⁄,ĵu | | |
| Accreditation | tation: | □ Az Co | Az Compliance | Sampler: | Riley Ploager | | | | (1. | 728 | 10 ⁵ | | | | 9:03 |
| □ NELAC | AC. | □ Other | | On Ice: | Yes | No VAGE | | | 7 09 | | ۱ '٤ | (\(\tau \) | | | |
| ☐ EDD (Type) | (Type) | | | # of Coolers: | _ | | | | ; po | | ON | | | | |
| | | | | Cooler Temp(including CF): 2 | - | -01-10- | | | leth | | ٤٢, ا | | | | |
| Date | Time | Matrix | Sample Name | Container Type and # | Preservative Type | HEAL No. | BTEX / | 08:H9T 9 1808 | EDB (N | PAHs b | CI, F, E | V) 0828 B) 0728 | O lstoT | | |
| 7.16.24 | 11:05 | Soil | CS24-12 @ 1' | 1, 4oz jar | 90 | 12 | | × | | | × | | | | |
| | 11:10 | | CS24-13 @ 1' | | | 13 | | | | | | | | | |
| | 11:15 | / | CS24-14 @ 1' | | | M | | | | | | | | | |
| | 11:18 | _ | CS24-15 @ 1' | / | | 15 | | | | | | | | | |
| | 11:24 | | CS24-16 @ 1' | | | ile | | | | | | | | | |
| | 11:29 | | CS24-17 @ 1' | | | H | | | | | | | | | |
| | 11:34 | | CS24-18 @ 1' | | | 14 | | | | | | | | | |
| | 11:39 | | CS24-19 @ 1' | | | 19 | | | | | | | | | |
| | 11:47 | | CS24-20 @ 1' | | | 10 | | | | | | | | | |
| | 11:59 | | CWS-01 @ 0-1' | | | 16 | | | , | - | | - | 4 | | |
| | 12:09 | | CWS-02 @ 0-1' | | | 88 | | | 12# | 1 | 200 | ^ ^ | | | |
| -> | 12:18 | > | CWS-03 @ 0-1' | ? | ⇒ | Le | ッ つ | | Samo | 10 A | Value | | | | |
| Date: | Time: | Relinquished by: | ed by: | Received by: | Via | Date | Remark | | MISSIM | (| 25 | 1 43 | \ \alpha | | |
| Š | i. | - | | Minne | MAMMAAAA | 12/2 | | - 1 | | 0 | ; 4 | - | , | | |
| 9 | | | ed by: | Received by: | VIA:COMIC | Date Time | | - | io deri | V | 300 | | | | |
| たかり | | Chum | | | | 7/18/27 | | | | | | | | | Pag |
| | If necessary | , samples sub | dali Environmental m oy be | subcontracted to other a | accredited laboratories | is. This serves as notice of this possibility. | is possibili | | ub-contr | acted dat | a will be | clearly n | Any sub-contracted data will be clearly notated on the analytical report | analytical r | ge 495 (|
| | | | | | | | | | | | | | | | 0, |

| | _ | | | 3339 | | | | | | AW | | | | | | | | | | | | Mical report. |
|-------------------------|-------------------------|---------------------------|---|-----------------------------------|-----------|------------------|-----------------------------|-----------------------------|--|---------------|--------------|---|---|---------------|---------------|---------------|---------------|---------------|--|-----------------------|--------------|---|
| | ANALYSIS LABORATOR | www.hallenvironmental.com | 4901 Hawkins NE - Albuquerque, NM 87109 | Tel 505-345-3975 Fax 505-345-4107 | Anal | (0) | oo4, g | RO 703 2, P | (C) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1 | 65/8(9)3, IIS | (Getalood) | 15D estideth yy 83 3 Mu 3r, 1 | BTEX / TPH:80 8081 Pd PPHs b RCRA 8 CI, F, E 8260 (V 8270 (S | × | | | | → → | | Remarks: WO# 2RP-5637 | Ball woodall | 子(ら)ない be clearly notated on the analytical report |
| | KRush 5 Daw | > | | | | Chad Hensley | e.com | e.com | | □ No you; | 0 | 1-0.1-2.0. | e HEAL No. | he | 58 | 36 | 37 | 38 | | ľ | Cr Date Time | 17 |
| und Time: | | | , Unit 1-12 | | | ager: | Chensley@vertexresource.com | Rplogger@vertexresource.com | | ₹ Yes | | D(including CF): 2 | Preservative Type | ICE | | | | -> | | Via: | Via Caine | accredited laborato |
| Turn-Around | ☐ Standard | Project Name | Cottondraw Unit 1-12 | Project #: | 23E-02423 | Project Manager: | Chensley@\ | Rplogger@v | Sampler: | On Ice: | # of Coolers | Cooler Temp(including CF): | Container Type and # | 1, 4oz jar | | | | -> | | Received by: | Received by: | confracted to other |
| Chain-of-Custody Record | Vertex (Bill to Devon) | | Bender BIVN | | | | | ☐ Level 4 (Full Validation) | Az Compliance | | | | Sample Name | CWS-04 @ 0-1' | CWS-05 @ 0-1' | CWS-06 @ 0-1' | CWS-07 @ 0-1' | CWS-08 @ 0-1' | | | | 1900 Ulterando) If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories |
| -of-Cu | Vertex (| | 305 E | Nm | | | | | □ Az Con | □ Other | | | Matrix | Soil | | | | -> | | Relinquished by: | | y, samples subm |
| hain | | | Address | Hobbs, N | | Fax#: | ackage: | dard | ation: | 9 | (Type) | | Time | 12:31 | 12:42 | 12:49 | 12:57 | 1:08 | | Time: | Time | If necessar |
| S | Client: | | Mailing Address: 205 | Hos | Phone # | email or Fax#. | QA/QC Package: | □ Standard | Accreditation: | □ NELAC | □ EDD | | Date | 7.16.24 | - | | | → | | Date: | Date: Time: | 11/11/11 |

Login Sample Receipt Checklist

Client: Vertex Job Number: 885-8239-1

Login Number: 8239 List Source: Eurofins Albuquerque

List Number: 1

Creator: McQuiston, Steven

| oreator. mogaistori, oteveri | | |
|---|--------|---------|
| Question | Answer | Comment |
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td> | True | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| s the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |
| | | |

Report to:
Chad Hensley



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Vertex Resource Services Inc.

Project Name: Cottondraw 1-12 CTB

Work Order: E410389

Job Number: 01058-0007

Received: 11/1/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/7/24

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/7/24

Chad Hensley 3101 Boyd Drive Carlsbad, NM 88220

Project Name: Cottondraw 1-12 CTB

Workorder: E410389

Date Received: 11/1/2024 7:00:00AM

Chad Hensley,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/1/2024 7:00:00AM, under the Project Name: Cottondraw 1-12 CTB.

The analytical test results summarized in this report with the Project Name: Cottondraw 1-12 CTB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

| _ | | | | |
|---|-------------------------------|------------------|---------------------|----------------|
| ı | Vertex Resource Services Inc. | Project Name: | Cottondraw 1-12 CTB | Reported: |
| ı | 3101 Boyd Drive | Project Number: | 01058-0007 | Keporteu: |
| l | Carlsbad NM, 88220 | Project Manager: | Chad Hensley | 11/07/24 14:37 |

| Client Sample ID | Lab Sample ID Matrix | Sampled | Received | Container |
|------------------|----------------------|----------|----------|------------------|
| CS24-21 @ 1' | E410389-01A Soil | 10/30/24 | 11/01/24 | Glass Jar, 2 oz. |
| CWS24-08 @ 0-1' | E410389-02A Soil | 10/30/24 | 11/01/24 | Glass Jar, 2 oz. |



Sample Data

| Vertex Resource Services Inc. | Project Name: | Cottondraw 1-12 CTB | |
|-------------------------------|------------------|---------------------|---------------------|
| 3101 Boyd Drive | Project Number: | 01058-0007 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Chad Hensley | 11/7/2024 2:37:54PM |

CS24-21 @ 1' E410389-01

| | E410389-01 | | | | |
|--------|--|---|--|---|---|
| D. I. | 1 0 | D.1: | D 1 | | N |
| Result | Limit | Dilution | Prepared | Analyzed | Notes |
| mg/kg | mg/kg | Ana | lyst: SL | | Batch: 2444143 |
| ND | 0.0250 | 1 | 11/01/24 | 11/03/24 | |
| ND | 0.0250 | 1 | 11/01/24 | 11/03/24 | |
| ND | 0.0250 | 1 | 11/01/24 | 11/03/24 | |
| ND | 0.0250 | 1 | 11/01/24 | 11/03/24 | |
| ND | 0.0500 | 1 | 11/01/24 | 11/03/24 | |
| ND | 0.0250 | 1 | 11/01/24 | 11/03/24 | |
| | 90.0 % | 70-130 | 11/01/24 | 11/03/24 | |
| mg/kg | mg/kg | Ana | lyst: SL | | Batch: 2444143 |
| ND | 20.0 | 1 | 11/01/24 | 11/03/24 | |
| | 92.4 % | 70-130 | 11/01/24 | 11/03/24 | |
| mg/kg | mg/kg | Ana | lyst: NV | | Batch: 2444147 |
| ND | 25.0 | 1 | 11/01/24 | 11/04/24 | |
| ND | 50.0 | 1 | 11/01/24 | 11/04/24 | |
| | 103 % | 50-200 | 11/01/24 | 11/04/24 | |
| mg/kg | mg/kg | Ana | lyst: IY | | Batch: 2445023 |
| ND | 20.0 | 1 | 11/04/24 | 11/04/24 | |
| | ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg | Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 mg/kg mg/kg Mg/kg mg/kg MD 20.0 92.4 % mg/kg ND 25.0 ND 50.0 103 % mg/kg mg/kg mg/kg | Reporting Result Limit Dilution mg/kg mg/kg Ana ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 70-130 1 mg/kg mg/kg Ana ND 20.0 1 92.4 % 70-130 1 mg/kg mg/kg Ana ND 25.0 1 ND 50.0 1 103 % 50-200 mg/kg Mg/kg Ana | Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: SL ND 0.0250 1 11/01/24 ND 0.0250 1 11/01/24 ND 0.0250 1 11/01/24 ND 0.0500 1 11/01/24 ND 0.0250 1 11/01/24 ND 0.0250 1 11/01/24 mg/kg mg/kg Analyst: SL ND 20.0 1 11/01/24 mg/kg mg/kg Analyst: NV ND 25.0 1 11/01/24 ND 50.0 1 11/01/24 ND 50.0 1 11/01/24 ND 50.0 1 11/01/24 Mg/kg mg/kg Analyst: NV | Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: SL ND 0.0250 1 11/01/24 11/03/24 ND 0.0250 1 11/01/24 11/03/24 ND 0.0250 1 11/01/24 11/03/24 ND 0.0500 1 11/01/24 11/03/24 ND 0.0250 1 11/01/24 11/03/24 ND 0.0250 1 11/01/24 11/03/24 mg/kg mg/kg Analyst: SL ND 20.0 1 11/01/24 11/03/24 mg/kg mg/kg Analyst: SL ND 25.0 1 11/01/24 11/03/24 ND 25.0 1 11/01/24 11/04/24 ND 50.0 1 11/01/24 11/04/24 ND 50.0 1 11/01/24 11/04/24 mg/kg mg/kg Analyst: IY |

Sample Data

| Vertex Resource Services Inc. | Project Name: | Cottondraw 1-12 CTB | |
|-------------------------------|------------------|---------------------|---------------------|
| 3101 Boyd Drive | Project Number: | 01058-0007 | Reported: |
| Carlsbad NM, 88220 | Project Manager: | Chad Hensley | 11/7/2024 2:37:54PM |

CWS24-08 @ 0-1'

E410389-02

| | | Reporting | | | | |
|--|--------|-----------|-------------|------------|----------|----------------|
| Analyte | Result | Limit | Dilutio | n Prepared | Analyzed | Notes |
| Volatile Organics by EPA 8021B | mg/kg | mg/kg | An | alyst: SL | | Batch: 2444143 |
| Benzene | ND | 0.0250 | 1 | 11/01/24 | 11/03/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 11/01/24 | 11/03/24 | |
| Toluene | ND | 0.0250 | 1 | 11/01/24 | 11/03/24 | |
| o-Xylene | ND | 0.0250 | 1 | 11/01/24 | 11/03/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 11/01/24 | 11/03/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 11/01/24 | 11/03/24 | |
| Surrogate: 4-Bromochlorobenzene-PID | | 90.5 % | 70-130 | 11/01/24 | 11/03/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: SL | | | Batch: 2444143 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 11/01/24 | 11/03/24 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | | 93.0 % | 70-130 | 11/01/24 | 11/03/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | An | alyst: NV | | Batch: 2444147 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 11/01/24 | 11/04/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 11/01/24 | 11/04/24 | |
| Surrogate: n-Nonane | | 99.4 % | 50-200 | 11/01/24 | 11/04/24 | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | An | alyst: IY | | Batch: 2445023 |
| Chloride | 48.6 | 20.0 | 1 | 11/04/24 | 11/04/24 | |



QC Summary Data

Vertex Resource Services Inc.Project Name:Cottondraw 1-12 CTBReported:3101 Boyd DriveProject Number:01058-0007Carlsbad NM, 88220Project Manager:Chad Hensley11/7/20242:37:54PM

| 3101 Boyd Drive Carlsbad NM, 88220 | | Project Number: Project Manager: | | 1058-0007 had Hensley | | | | | 11/7/2024 2:37:54PM |
|---------------------------------------|--------|----------------------------------|----------------|--------------------------|------|---------------|-------------|--------------|---------------------|
| | | Volatile O | rganics b | oy EPA 802 | 1B | | | | Analyst: SL |
| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |
| Blank (2444143-BLK1) | | | | | |] | Prepared: 1 | 1/01/24 Aı | nalyzed: 11/01/24 |
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| o,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.05 | | 8.00 | | 88.1 | 70-130 | | | |
| LCS (2444143-BS1) | | | | | |] | Prepared: 1 | 1/01/24 Aı | nalyzed: 11/01/24 |
| Benzene | 5.25 | 0.0250 | 5.00 | | 105 | 70-130 | | | |
| Ethylbenzene | 5.13 | 0.0250 | 5.00 | | 103 | 70-130 | | | |
| Toluene | 5.22 | 0.0250 | 5.00 | | 104 | 70-130 | | | |
| o-Xylene | 5.12 | 0.0250 | 5.00 | | 102 | 70-130 | | | |
| p,m-Xylene | 10.4 | 0.0500 | 10.0 | | 104 | 70-130 | | | |
| Total Xylenes | 15.5 | 0.0250 | 15.0 | | 104 | 70-130 | | | |
| Surrogate: 4-Bromochlorobenzene-PID | 7.12 | | 8.00 | | 89.0 | 70-130 | | | |
| LCS Dup (2444143-BSD1) | | | | | |] | Prepared: 1 | 1/01/24 Aı | nalyzed: 11/01/24 |
| Benzene | 5.26 | 0.0250 | 5.00 | | 105 | 70-130 | 0.147 | 20 | |
| Ethylbenzene | 5.15 | 0.0250 | 5.00 | | 103 | 70-130 | 0.410 | 20 | |
| Toluene | 5.24 | 0.0250 | 5.00 | | 105 | 70-130 | 0.281 | 20 | |
| o-Xylene | 5.14 | 0.0250 | 5.00 | | 103 | 70-130 | 0.298 | 20 | |
| o,m-Xylene | 10.5 | 0.0500 | 10.0 | | 105 | 70-130 | 0.367 | 20 | |
| Total Xylenes | 15.6 | 0.0250 | 15.0 | | 104 | 70-130 | 0.345 | 20 | |

70-130



Surrogate: 4-Bromochlorobenzene-PID

7.13

QC Summary Data

Vertex Resource Services Inc.Project Name:Cottondraw 1-12 CTBReported:3101 Boyd DriveProject Number:01058-0007Carlsbad NM, 88220Project Manager:Chad Hensley11/7/20242:37:54PM

| Nonhalogenated | Organics I | bv EPA | 8015D - | GRO |
|----------------|------------|--------|---------|-----|
| | | | | |

Analyst: SL

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | |
|---------|--------|--------------------|----------------|------------------|-----|---------------|-----|--------------|-------|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | Notes |

| Blank (2444143-BLK1) | | | | | | Prepared: 1 | 1/01/24 | Analyzed: 11/01/24 |
|---|------|------|------|------|--------|-------------|---------|--------------------|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.05 | | 8.00 | 88.2 | 70-130 | | | |
| LCS (2444143-BS2) | | | | | | Prepared: 1 | 1/01/24 | Analyzed: 11/01/24 |
| Gasoline Range Organics (C6-C10) | 42.1 | 20.0 | 50.0 | 84.1 | 70-130 | | | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.31 | | 8.00 | 91.4 | 70-130 | | | |
| LCS Dup (2444143-BSD2) | | | | | | Prepared: 1 | 1/01/24 | Analyzed: 11/01/24 |
| Gasoline Range Organics (C6-C10) | 41.8 | 20.0 | 50.0 | 83.6 | 70-130 | 0.641 | 20 | |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.23 | | 8.00 | 90.3 | 70-130 | | | |



QC Summary Data

Cottondraw 1-12 CTB Vertex Resource Services Inc. Project Name: Reported: 3101 Boyd Drive Project Number: 01058-0007

| Carlsbad NM, 88220 | | Project Manager | r: Ch | ad Hensley | | | | | 11/7/2024 2:37:54PM | |
|---------------------------------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|-------------|-------------------|---------------------|--|
| | Nonha | logenated Or | ganics by l | EPA 8015I |) - DRO | /ORO | | | Analyst: NV | |
| Analyte | Result mg/kg | Reporting Limit mg/kg | Spike Level mg/kg | Source Result mg/kg | Rec % | Rec Limits % | RPD % | RPD Limit % | Notes | |
| Blank (2444147-BLK1) | | | | | | | Prepared: 1 | 1/01/24 A | nalyzed: 11/04/24 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | | |
| Surrogate: n-Nonane | 51.6 | | 50.0 | | 103 | 50-200 | | | | |
| LCS (2444147-BS1) | | | | | | | Prepared: 1 | 1/01/24 A | nalyzed: 11/04/24 | |
| Diesel Range Organics (C10-C28) | 265 | 25.0 | 250 | | 106 | 38-132 | | | | |
| Surrogate: n-Nonane | 50.5 | | 50.0 | | 101 | 50-200 | | | | |
| LCS Dup (2444147-BSD1) | | | | | | | Prepared: 1 | 1/01/24 A | nalyzed: 11/04/24 | |
| Diesel Range Organics (C10-C28) | 264 | 25.0 | 250 | | 106 | 38-132 | 0.262 | 20 | | |
| Surrogate: n-Nonane | 53.5 | | 50.0 | | 107 | 50-200 | | | | |



255

LCS Dup (2445023-BSD1)

Chloride

Prepared: 11/04/24 Analyzed: 11/04/24

20

QC Summary Data

| Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220 | | Project Name: Project Number: Project Manager | 0 | Cottondraw 1-12 CTB 01058-0007 Chad Hensley | | | | | Reported: 11/7/2024 2:37:54PM |
|--|--------|---|-------------------------|---|----------|---------------|-------------|--------------|--------------------------------------|
| | | Anions | by EPA | 300.0/9056 <i>A</i> | A | | | | Analyst: IY |
| Analyte | Result | Reporting Limit mg/kg | Spike Level mg/kg | Source Result mg/kg | Rec | Rec Limits | RPD % | RPD Limit | Notes |
| Blank (2445023-BLK1) | | | g.ng | | | | | | analyzed: 11/04/24 |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2445023-BS1) | | | | | | | Prepared: 1 | 1/04/24 A | analyzed: 11/04/24 |
| Chloride | 259 | 20.0 | 250 | | 104 | 90-110 | | | |

250

20.0

102

90-110

1.53

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Vertex Resource Services Inc.Project Name:Cottondraw 1-12 CTB3101 Boyd DriveProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Chad Hensley11/07/24 14:37

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Additional Instructions: WO 21420844 Jim Raley

Chain of Custody

| Rec |
|---------|
| eivea |
| lby |
| OCD: |
| 11/2 |
| 0/202 |
| 4 10: |
| 1:49:03 |
| AM |

Page _____ of __

State

CWA

Remarks

Υ

RCRA

or N

| | | • | | | | | | |
|---|-----------------------|---------------------|--|---------------------|-----------------------------------|-----------------|---|---|
| l, (field sampler), attest to the validity and author | enticity of this samp | ole. I am aware tha | nt tampering with or intentionally mislabeling | the sample locatio | n, date or time of c | ollection is co | onsidered fraud and may be grounds for legal action. | • |
| Sampled by: | | | | | | | | |
| Relinquished by: (Signature) | Date 12 31 24 | 17:30 | Meservedov: (ognaturo) Wighelle Gonzales | Date 10-31-24 | Time 1130 | | Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. | |
| Retinguishadowdsignaturel | Date | Time 615 | Received/by: (Signature | Date 10.3/.24 | 1700 | | Lab Use Only Received on ice: N | • |
| Religious ned by: (Signature) | Date 10.31.24 | 1400 (| Received by Signature). | Date 11-1-24 | 7:00 | | <u>T1 </u> | - |
| Relinquished by: (Signature) | Date | Time | , (08.00.00) | Date | Time | | AVG Temp °C | |
| Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A | - Aqueous, O - Oth | er | - | Container Type | e: g - glass, p - p | oly/plastic | c, ag - amber glass, v - VOA | |
| Note: Camples are discarded 14 days after | rocults are report | and unlace athor | arrangoments are made. Harardous sam | salos will be setus | and to diant as d | icancod of a | at the client expense. The report for the applicit of the above | |

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Printed: 11/1/2024 9:10:09AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

| Client: | Vertex Resource Services Inc. | Date Received: | 11/01/24 07 | :00 | | Work Order ID: | E410389 |
|-----------------|--|-----------------|-------------|-------------------|----------------|----------------|-----------------|
| Phone: | (575) 748-0176 | Date Logged In: | 10/31/24 15 | :06 | | Logged In By: | Noe Soto |
| Email: | chensley@vertexresources.com | Due Date: | 11/07/24 17 | :00 (4 day TAT) | | | |
| | | | | | | | |
| Chain of | Custody (COC) | | | | | | |
| | he sample ID match the COC? | -b 4b - COC | Yes | | | | |
| | he number of samples per sampling site location mate amples dropped off by client or carrier? | en the COC | Yes | | | | |
| | e COC complete, i.e., signatures, dates/times, reques | ted analyses? | Yes No | Carrier: <u>C</u> | <u>Courier</u> | | |
| | Il samples received within holding time? | ied allaryses: | Yes | | | | |
| 3. Well a | Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio | | 103 | _ | | Comment | ts/Resolution |
| Sample T | Turn Around Time (TAT) | | | | G 1 11 | | |
| 6. Did the | e COC indicate standard TAT, or Expedited TAT? | | Yes | | 1 - | y name is mi | ssing on COC by |
| Sample C | | | | | client. | | |
| | sample cooler received? | | Yes | | | | |
| • | was cooler received in good condition? | | Yes | | | | |
| 9. Was the | e sample(s) received intact, i.e., not broken? | | Yes | | | | |
| | custody/security seals present? | | No | | | | |
| 11. If yes | , were custody/security seals intact? | | NA | | | | |
| | the sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample | received w/i 15 | Yes C | | | | |
| | Container | <u> </u> | <u>~</u> | | | | |
| | queous VOC samples present? | | No | | | | |
| | OC samples collected in VOA Vials? | | NA | | | | |
| | head space less than 6-8 mm (pea sized or less)? | | NA | | | | |
| 17. Was a | trip blank (TB) included for VOC analyses? | | NA | | | | |
| 18. Are n | on-VOC samples collected in the correct containers? | | Yes | | | | |
| 19. Is the | appropriate volume/weight or number of sample contain | ers collected? | Yes | | | | |
| Field Lal | <u>bel</u> | | | | | | |
| | field sample labels filled out with the minimum infor | rmation: | | | | | |
| | ample ID? Date/Time Collected? | | Yes | | | | |
| | follectors name? | | Yes No | | | | |
| | Preservation | | 140 | | | | |
| | the COC or field labels indicate the samples were pro | eserved? | No | | | | |
| 22. Are sa | ample(s) correctly preserved? | | NA | | | | |
| 24. Is lab | filteration required and/or requested for dissolved m | etals? | No | | | | |
| Multipha | ase Sample Matrix | | | | | | |
| 26. Does | the sample have more than one phase, i.e., multiphas | e? | No | | | | |
| 27. If yes | , does the COC specify which phase(s) is to be analy | zed? | NA | | | | |
| Subcontr | act Laboratory | | | | | | |
| | amples required to get sent to a subcontract laborator | y ? | No | | | | |
| | a subcontract laboratory specified by the client and if | - | NA S | Subcontract Lab | : NA | | |
| Client Ir | nstruction_ | | | | | | |
| <u>enent ii</u> | <u> </u> | | | | | | |
| | | | | | | | |
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| | | | | | | | |
| | | | | | | | |
| | | <u> </u> | | <u> </u> | | | |
| | | | | | | | - |

Signature of client authorizing changes to the COC or sample disposition.

APPENDIX D – Depth to Groundwater Drilling

PAGE 1 OF 2

WELL TAG ID NO.



| | OSE POD NO. (| |) | WELL TAG ID NO | | OSE FILE NO(| S). | | |
|----------------------------------|---------------------------|----------|-----------------------------------|---|----------------------|-----------------------------|---------------------------|----------------------------------|------------------|
| ION | C04792 POD | 1 | | C4792 | | C 04792 | | | |
| OCAT | WELL OWNER Devon Energ | | | | | PHONE (OPTI | ONAL) | | |
| GENERAL AND WELL LOCATION | WELL OWNER 205 E Bende | | | | | CITY Hobbs | STATE NM 88240 | ZIP | |
| AND | WELL LOCATION | | DE | | SECONDS 23.7768 N | * ACCURACY | REQUIRED: ONE TEN | TH OF A SECOND | |
| ERAJ | (FROM GPS) | | | -103 43 | 51.5346 W | * DATUM REG | QUIRED: WGS 84 | | |
| 1. GEN | DESCRIPTION | | | O STREET ADDRESS AND COMMON LA | ANDMARKS – PLS | SS (SECTION, TO | WNSHJIP, RANGE) WH | ERE AVAILABLE | |
| | LICENSE NO. 1833 | | NAME OF LICENSED | DRILLER Jason Maley | | | NAME OF WELL DRI | LLING COMPANY ision Resources | - |
| | DRILLING STA | | DRILLING ENDED 2-6-24 | DEPTH OF COMPLETED WELL (FT) 55' | BORE HO | LE DEPTH (FT) 55' | DEPTH WATER FIRS | ST ENCOUNTERED (FT) Dry hole | |
| Z | COMPLETED V | VELL IS: | ARTESIAN *add Centralizer info be | | UNCONFINED) | | WATER LEVEL PLETED WELL (| DATE STATIC 1 2-10 | |
| VTIO | DRILLING FLU | ID: | ✓i AIR | MUD ADDITIVES | - SPECIFY: | | | | |
| RM/ | DRILLING MET | HOD: 🗸 | ROTARY [HAM? | MER CABLE TOOL OTHER- | - SPECIFY: | | CHECK INSTAL | HERE IF PITLESS ADAI LED | TER IS |
| INFO | DEPTH (fe | eet bgl) | BORE HOLE | CASING MATERIAL AND/O | R C | ASING | CASING | CASING WALL | SLOT |
| ASING | FROM | ТО | DIAM (inches) | GRADE (include each casing string, and note sections of screen) | d CON | NECTION TYPE ling diameter) | INSIDE DIAM. (inches) | THICKNESS (inches) | SIZE (inches) |
| & C. | 0 | 45' | 6" | 2" PVC SCH 40 | T | `hread | 2" | SCH40 | N/A |
| 2. DRILLING & CASING INFORMATION | 45' | 55' | 6" | 2" PVC CH40 | Т | hread | 2" | SCH40 | .02 |
| | | | | | | | | | |
| | DEPTH (fo | ect bgl) | BORE HOLE | LIST ANNULAR SEAL MATERIA | | L PACK SIZE- | AMOUNT | метно | D OF |
| IAL | FROM | то | DIAM. (inches) | RANGE BY IN *(if using Centralizers for Artesian v | wells- indicate the | e spacing below) | (cubic feet) | PLACEM | |
| 3. ANNULAR MATERIAL | | | | None pulled at | nd plugged | | | | |
| | OSE INTERN | AL USE | | POD NO. | | WR-20 | | & LOG (Version 09/2. | 2/2022) |

LOCATION

| | DEPTH (| feet bgl) | | COLOR AND TYPE OF MATERIAL | ENCOUNTERED - | WATER | ESTIMATED YIELD FOR |
|------------------------------|-------------|---------------------|-----------------------------|---|--|--------------------------------|----------------------------------|
| | FROM | то | THICKNESS (feet) | INCLUDE WATER-BEARING CAVITIES (attach supplemental sheets to fully | OR FRACTURE ZONES | BEARING? (YES / NO) | WATER- BEARING ZONES (gpm) |
| | 0 | 10' | 10' | Red topsoil wih small to me | edium rock | Y /N | |
| | 10' | 20' | 10' | White caliche roc | k | Y /N | |
| | 20' | 40' | 20' | Tan fine sand with ca | liche | Y /N | |
| | 40' | 55' | 15' | Brown fine sand with sm | all rock | Y ✓N | |
| | | | | | | Y N | |
| 7 | | | | | | Y N | |
| WEL | | | | | | Y N | |
| OF | | | | | | Y N | |
| 500 | | | | | | Y N | |
| ICI | | | | | | Y N | |
| 007 | | | | | | Y N | |
| SEO | | | | | | Y N | |
| 4. HYDROGEOLOGIC LOG OF WELL | | | | | | Y N | |
| нур | | | | | | Y N | |
| 4 | | | | | | Y N | |
| | | | | | | Y N | |
| | | | | | | Y N | |
| | | | | | | Y N | |
| | | | | | | Y N | |
| | | | | | | Y N | |
| | | | | | | Y N | |
| | METHOD U | | | OF WATER-BEARING STRATA: BAILER OTHER – SPECIFY: Dry he | | TAL ESTIMATED ELL YIELD (gpm): | Dry |
| NOIS | WELL TES | | | ACH A COPY OF DATA COLLECTED DURIN ME, AND A TABLE SHOWING DISCHARGE A | | | |
| TEST; RIG SUPERVISION | | | FORMATION: PRILL RIG SUPER | VISOR(S) THAT PROVIDED ONSITE SUPER | VISION OF WELL CONSTRI | UCTION OTHER TE | HAN LICENSEE: |
| 'n | THE UNDE | RSIGNED RECORD (| HEREBY CERTIF | IES THAT, TO THE BEST OF HIS OR HER K ESCRIBED HOLE AND THAT HE OR SHE W D DAYS AFTER COMPLETION OF WELL DR | NOWLEDGE AND BELIEF, TILL FILE THIS WELL RECO | THE FOREGOING | IS A TRUE AND |
| 6. SIGNATURE | AND THE I | 7 | Malay | Jason Maley R / PRINT SIGNEE NAME | illino. | 2/21/24 DATE | <i>!</i> |
| FO | R OSE INTER | NAL LISE | * | | WR-20 WELL R | ECORD & LOG (Ve | rsion ()9/22/2()22) |
| | E NO. | THE USE | | POD NO. | TRN NO. | Leona a Lou (Vi | . S. OH OVIZZIZOZZ |
| LO | CATION | | | | WELL TAG ID NO. | | PAGE 2 OF 2 |



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

| Well c | Engineer Well Number: C-4 owner: Devon Energy Reso | urces | | | | Phone | No.: 405- | 318-4697 | |
|--------|---|-------------------------|---------------|--------------|------------|------------------|--------------------|--------------------|--------------------------------|
| | ag address: 205 E. Bender F | | | | | | | | |
| City: | Habba | | State: _ | | | MM | | _ Zip coo | le: 88240 |
| | | | | | | | | | |
| I. W | ELL PLUGGING INFOR | MATION: | | | | | | | |
| 1) | Name of well drilling cor | npany that plug | ged well: Vi | sion Res | ources | | | | |
| 2) | New Mexico Well Driller | | | | | | Expira | tion Date: | 10-7-2025 |
| 3) | Well plugging activities v Jason Maley | were supervised | by the follow | wing wel | l driller(| s)/rig su | pervisor(s) |): | |
| 4) | Date well plugging began | 2-10-24 | | Date | well plu | gging co | oncluded: | 2-10-24 | |
| 5) | GPS Well Location: | Latitude: Longitude: | 32 -103 | deg, deg, | 8 43 | _ min, _ min, | 23.7768 51.5346 | _ sec _ sec, WG | S 84 |
| 5) | Depth of well confirmed by the following manner: | | lugging as: | 55" | ft bel | ow grou | ınd level (t | ogl), | |
| 7) | Static water level measure | ed at initiation of | of plugging: | DRY | ft bg | 1 | | | |
| 3) | Date well plugging plan of | of operations wa | as approved b | y the Sta | ate Engi | neer: _ | 12-8-23 | - | |
| 9) | Were all plugging activiti differences between the a | | | | | | | | please descr ages as needed |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Version: September 8, 2009

Page 1 of 2

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

| Depth (ft bgl) | Plugging Material Used (include any additives used) | Volume of Material Placed (gallons) | Theoretical Volume of Borehole/ Casing (gallons) | Placement Method (tremie pipe, other) | Comments ("casing perforated first", "open annular space also plugged", etc.) |
|-------------------|---|-------------------------------------|--|--|---|
| | 0 Wyoming Bentonite | 77.50 | 77.50 | other) Tremie pipe Open Hole | annular space also plugged", etc.) |
| | | MULTIPLY cubic feet x | BY AND OBTAIN 7.4805 = gallons | | |

III. SIGNATURE:

I, Jason Maley , say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

Version: September 8, 2009

Page 2 of 2

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 405133

QUESTIONS

| Operator: | OGRID: |
|-------------------------------------|---|
| DEVON ENERGY PRODUCTION COMPANY, LP | 6137 |
| 333 West Sheridan Ave. | Action Number: |
| Oklahoma City, OK 73102 | 405133 |
| | Action Type: |
| | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

| Prerequisites | |
|-------------------|--|
| Incident ID (n#) | nAPP2312445915 |
| Incident Name | NAPP2312445915 COTTON DRAW UNIT 1-12 CTB @ 0 |
| Incident Type | Fire |
| Incident Status | Remediation Closure Report Received |
| Incident Facility | [fAPP2130734060] COTTON DRAW UNIT 1-12 BONE SPRING CTB |

| Location of Release Source | |
|--|---------------------------|
| Please answer all the questions in this group. | |
| Site Name | COTTON DRAW UNIT 1-12 CTB |
| Date Release Discovered | 09/29/2019 |
| Surface Owner | Federal |

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

| Nature and Volume of Release | |
|--|---|
| Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission. | |
| Crude Oil Released (bbls) Details | Cause: Lightning Production Tank Crude Oil Released: 201 BBL Recovered: 70 BBL Lost: 131 BBL. |
| Produced Water Released (bbls) Details | Cause: Lightning Production Tank Produced Water Released: 1,138 BBL Recovered: 770 BBL Lost: 368 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l | No |
| Condensate Released (bbls) Details | Not answered. |
| Natural Gas Vented (Mcf) Details | Not answered. |
| Natural Gas Flared (Mcf) Details | Not answered. |
| Other Released Details | Not answered. |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | Lightning struck the tanks and caused a fire and fluid release. |

General Information Phone: (505) 629-6116

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

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

QUESTIONS, Page 2

Action 405133

| QUESTIONS | (continued) |
|------------------|-------------|
|------------------|-------------|

| Operator: | OGRID: |
|-------------------------------------|---|
| DEVON ENERGY PRODUCTION COMPANY, LP | 6137 |
| 333 West Sheridan Ave. | Action Number: |
| Oklahoma City, OK 73102 | 405133 |
| | Action Type: |
| | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

| Nature and Volume of Release (continued) | |
|---|--|
| Is this a gas only submission (i.e. only significant Mcf values reported) | No, according to supplied volumes this does not appear to be a "gas only" report. |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | Yes |
| Reasons why this would be considered a submission for a notification of a major release | From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire. |
| With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form. | |

| Initial Response | | |
|--|--|--|
| • | The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury. | |
| The source of the release has been stopped | True | |
| The impacted area has been secured to protect human health and the environment | True | |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True | |
| All free liquids and recoverable materials have been removed and managed appropriately | True | |
| If all the actions described above have not been undertaken, explain why | Personnel associated with this incident are no longer employed by Devon. It is assumed that required contacts were made as the Fire Department was dispatched to the location at the time. | |
| Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission. | | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | | |
| I hereby agree and sign off to the above statement | Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 11/20/2024 | |

Phone: (505) 629-6116

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

QUESTIONS, Page 3

Action 405133

QUESTIONS (continued)

| Operator: | OGRID: |
|-------------------------------------|---|
| DEVON ENERGY PRODUCTION COMPANY, LP | 6137 |
| 333 West Sheridan Ave. | Action Number: |
| Oklahoma City, OK 73102 | 405133 |
| | Action Type: |
| | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| Site Characterization | |
|---|---|
| Please answer all the questions in this group (only required when seeking remediation plan approva release discovery date. | l and beyond). This information must be provided to the appropriate district office no later than 90 days after the |
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs) | Between 51 and 75 (ft.) |
| What method was used to determine the depth to ground water | Direct Measurement |
| Did this release impact groundwater or surface water | No |
| What is the minimum distance, between the closest lateral extents of the release ar | nd the following surface areas: |
| A continuously flowing watercourse or any other significant watercourse | Greater than 5 (mi.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | Greater than 5 (mi.) |
| An occupied permanent residence, school, hospital, institution, or church | Greater than 5 (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | Between ½ and 1 (mi.) |
| Any other fresh water well or spring | Greater than 5 (mi.) |
| Incorporated municipal boundaries or a defined municipal fresh water well field | Greater than 5 (mi.) |
| A wetland | Between 1 and 5 (mi.) |
| A subsurface mine | Greater than 5 (mi.) |
| An (non-karst) unstable area | Greater than 5 (mi.) |
| Categorize the risk of this well / site being in a karst geology | Low |
| A 100-year floodplain | Between 1 and 5 (mi.) |
| Did the release impact areas not on an exploration, development, production, or storage site | No |

| t apply or are indicated. This information must be provided t | o the appropriate district office no later than 90 days after the release discovery date. |
|--|---|
| an approval with this submission | Yes |
| onstrating the lateral and vertical extents of soil contamination | on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC. |
| extents of contamination been fully delineated | Yes |
| ntained within a lined containment area | No |
| (Provide the highest observable value for each, in n | nilligrams per kilograms.) |
| (EPA 300.0 or SM4500 CI B) | 4200 |
| (EPA SW-846 Method 8015M) | 8200 |
| (EPA SW-846 Method 8015M) | 5600 |
| (EPA SW-846 Method 8021B or 8260B) | 0 |
| (EPA SW-846 Method 8021B or 8260B) | 0 |
| MAC unless the site characterization report includes complete lines for beginning and completing the remediation. | ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC |
| the remediation commence | 06/28/2024 |
| final sampling or liner inspection occur | 10/30/2024 |
| e remediation complete(d) | 07/16/2024 |
| e area (in square feet) that will be reclaimed | 0 |
| e (in cubic yards) that will be reclaimed | 0 |
| e area (in square feet) that will be remediated | 3301 |
| e (in cubic yards) that will be remediated | 122 |
| ments are recognized to be the best guess or calculation at t | the time of submission and may (be) change(d) over time as more remediation efforts are completed. |
| | an approval with this submission constrating the lateral and vertical extents of soil contamination extents of contamination been fully delineated stained within a lined containment area (Provide the highest observable value for each, in n (EPA 300.0 or SM4500 CI B) (EPA SW-846 Method 8015M) (EPA SW-846 Method 8015M) (EPA SW-846 Method 8021B or 8260B) (EPA SW-846 Method 8021B or 8260B) (EPA SW-846 Method 8021B or 8260B) (AC unless the site characterization report includes completines for beginning and completing the remediation. The remediation commence of final sampling or liner inspection occur e remediation complete(d) e area (in square feet) that will be reclaimed e (in cubic yards) that will be remediated e (in cubic yards) that will be remediated |

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 405133

QUESTIONS (continued)

| Operator: | OGRID: |
|-------------------------------------|---|
| DEVON ENERGY PRODUCTION COMPANY, LP | 6137 |
| 333 West Sheridan Ave. | Action Number: |
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| | Action Type: |
| | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| Remediation Plan (continued) | | |
|---|--|--|
| Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. | | |
| This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: | | |
| (Select all answers below that apply.) | | |
| (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) | Yes | |
| Which OCD approved facility will be used for off-site disposal | HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510] | |
| OR which OCD approved well (API) will be used for off-site disposal | Not answered. | |
| OR is the off-site disposal site, to be used, out-of-state | Not answered. | |
| OR is the off-site disposal site, to be used, an NMED facility | Not answered. | |
| (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) | Not answered. | |
| (In Situ) Soil Vapor Extraction | Not answered. | |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) | Not answered. | |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) | Not answered. | |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) | Not answered. | |
| Ground Water Abatement pursuant to 19.15.30 NMAC | Not answered. | |
| OTHER (Non-listed remedial process) | Not answered. | |
| D. O. I | | |

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

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

Name: James Raley Title: EHS Professional I hereby agree and sign off to the above statement Email: jim.raley@dvn.com Date: 11/20/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 405133

QUESTIONS (continued)

| Operator: | OGRID: |
|-------------------------------------|---|
| DEVON ENERGY PRODUCTION COMPANY, LP | 6137 |
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| | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

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

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QUESTIONS, Page 6

Action 405133

QUESTIONS (continued)

| Operator: | OGRID: |
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| DEVON ENERGY PRODUCTION COMPANY, LP | 6137 |
| 333 West Sheridan Ave. | Action Number: |
| Oklahoma City, OK 73102 | 405133 |
| | Action Type: |
| | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| Sampling Event Information | |
|---|------------|
| Last sampling notification (C-141N) recorded | 396156 |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 10/30/2024 |
| What was the (estimated) number of samples that were to be gathered | 1 |
| What was the sampling surface area in square feet | 200 |

| Remediation Closure Request | | |
|--|---------------------------------------|--|
| Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed. | | |
| Requesting a remediation closure approval with this submission | Yes | |
| Have the lateral and vertical extents of contamination been fully delineated | Yes | |
| Was this release entirely contained within a lined containment area | No | |
| All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion | Yes | |
| What was the total surface area (in square feet) remediated | 3301 | |
| What was the total volume (cubic yards) remediated | 122 | |
| All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene | Yes | |
| What was the total surface area (in square feet) reclaimed | 0 | |
| What was the total volume (in cubic yards) reclaimed | 0 | |
| Summarize any additional remediation activities not included by answers (above) | Well Pad remediated to site standards | |

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Email: jim.raley@dvn.com

Date: 11/20/2024

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QUESTIONS, Page 7

Action 405133

QUESTIONS (continued)

| Operator: | OGRID: |
|-------------------------------------|---|
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| | Action Type: |
| | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

| Reclamation Report | |
|---|----|
| Only answer the questions in this group if all reclamation steps have been completed. | |
| Requesting a reclamation approval with this submission | No |

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CONDITIONS

Action 405133

CONDITIONS

| Operator: | OGRID: |
|-------------------------------------|---|
| DEVON ENERGY PRODUCTION COMPANY, LP | 6137 |
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| | Action Type: |
| | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

CONDITIONS

| Created By | $^{\prime}$ | Condition Date |
|------------|--|-------------------|
| rhamlet | We have received your Remediation Closure Report for Incident #NAPP2312445915 COTTON DRAW UNIT 1-12 CTB, thank you. This Remediation Closure Report is approved. | 4/23/2025 |