



March 28, 2023

Vertex Project #: 22E-00123-01

Spill Closure Report: Dayton ER Battery
Unit I, Section 21, Township 18 South, Range 26 East
API: 30-015-21629
County: Eddy
Incident Report: NMLB1122253079/2RP-824

Prepared For: **EOG Resources Inc.**
104 South 4th Street
Artesia, New Mexico 88210

New Mexico Oil Conservation Division - District 2 - Artesia

811 South 1st Street
Artesia, New Mexico 88210

EOG Resources, Inc. (EOG) retained Vertex Resource Services Inc. (Vertex) to conduct a spill assessment and remediation for a release that was discovered on June 3, 2011, at Dayton ER Battery (hereafter referred to as "Dayton"). EOG submitted an initial C-141 Release Notification (Attachment 1) to New Mexico Oil Conservation Division (NMOCD) District 2 on June 17, 2011. Incident ID number NMLB1122253079 was assigned to the incident.

This letter provides a description of the assessment and remediation activities and demonstrates that closure criteria established in Table I of 19.15.29.12 *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) are being met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for the closure of this remediation site, with the understanding that remediation of the site was conducted in a manner to achieve the requirements of 19.15.29.13.

Incident Description

On June 3, 2011, a release at EOG's Dayton site occurred when a valve broke during work on a gas line. This resulted in the release of 70 barrels (bbls) of produced water/condensate onto the constructed pad. After the release, a vacuum truck was brought on-site to recover the fluids. Approximately 60 bbls of fluids were recovered. No fluids were released into waterways.

Site Characterization

The release at Dayton occurred on private land at 32.732459° N, 104.382115° W, approximately 2.7 miles southeast of Atoka, New Mexico. The legal description for the site is Unit I, Section 21, Township 18 South, Range 26 East in Eddy County, New Mexico. This location is within the Permian Basin in southeast New Mexico and has historically been used for oil and gas exploration and production, and rangeland.

Dayton is typical of sites in the western Permian Basin and is currently used for storage of oil and gas. The following sections specifically describe the release area on the north edge of the constructed pad (Attachment 2 – Figure 1).

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The surrounding landscape is associated with hills, plains, and ridges with elevations ranging between 1,250 and 4,800 feet. The climate is semiarid with average annual precipitation ranging between 10 and 25 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be principally black grama (United States Department of Agriculture, Natural Resources Conservation Service, 2021). Limited to no vegetation is allowed to grow on the compacted production pad, right of way, and access road.

The Geological Map of New Mexico indicates the surface geology at Dayton is comprised primarily of Qp – Piedmont alluvial deposits from the Holocene to lower Pleistocene ages (New Mexico Bureau of Geology and Mineral Resources, 2022). The United States Department of Agriculture Web Soil Survey characterizes the soil at the site as Reeves loam association. The soil is well-drained with a high runoff. The karst geology potential for Dayton is low (United States Department of the Interior, Bureau of Land Management, 2022).

There is no surface water located at Dayton. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is the Pecos River located approximately 4.2 miles east of the site. At Dayton, 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.

The nearest active well data to Dayton is an NMOSE monitoring well located approximately 0.12 miles northeast of the site (New Mexico Office of State Engineers, 2022). Data from 2022 shows that the NMOSE borehole was dry at 55 feet below ground surface (bgs). Information pertaining to the depth to groundwater determination is included in Attachment 4.

Closure Criteria Determination

Using site characterization information, a closure criteria determination worksheet (Attachment 4) was completed to determine if the release was subject to any of the special case scenarios outlined in Paragraph (4) of Subsection C of 29.15.29.12 NMAC.

Based on the data included in the closure criteria determination worksheet, the release at Dayton is not subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC. The nearest groundwater data is younger than 25 years and located closure than 0.5 miles from the release site; therefore, the depth to groundwater can accurately be determined. The closure criteria for the site are determined to be associated with the following constituent concentration limits (Table 1).

The volume of the release was 70 bbls of produced water within the lease boundary with approximately 60 bbls recovered. In accordance with NMAC 19.15.29.11.A.5.c.ii, as the volume of unrecovered produced water did not exceed 200 bbls, vertical delineation to NMOCD's strictest criteria was not required.

Table 1. Closure Criteria for Soils to Remediation & Reclamation Standards		
	Constituent	Limit
0-4 feet bgs (19.15.29.13)	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
DTGW 51-100 feet (19.15.29.12)	Chloride	10,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	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

Remedial Actions

An initial site inspection of the spill area was completed on November 2, 2021, which identified the area of the spill specified in the initial C-141 report which provided the volume of the spill. The impacted area was determined to be approximately 107 feet long and 87 feet wide; the total affected area was determined to be 6,204 square feet. The DFR associated with the site inspection was included in the NMOCD Remediation Plan. Additional horizontal delineation was completed after excavation to determine the east and west extents. The DFR associated with the additional sampling is included in Attachment 2. Samples from the additional delineation were submitted for laboratory analysis. The release area was fully delineated and laboratory analysis was included in the remediation plan.

A remediation plan was completed and submitted to NMOCD for approval to complete fieldwork. Remediation began to meet NMOCD's 51-100' on-pad criteria and off-pad criteria for the top four feet in the pasture portion of the excavation. An aerial view site schematic was included with the remediation plan.

Remediation efforts began on May 26, 2022, to excavate to NMOCD's 51-100 closure criteria. Vertex personnel supervised the excavation of impacted soils. Field screening was completed each day on multiple sample points. Field screening results were used to identify areas requiring further remediation from those areas showing concentrations below determined closure criteria levels. Soils were removed to a depth of 1-foot bgs and 4 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. Field screening results are presented in Table 2 (Attachment 3), as well as initial and final Daily Field Reports in Attachment 5. The site schematic of the first confirmation sampling events can be found in Figure 2 (Attachment 2).

Notification that confirmatory samples were being collected was provided to the NMOCD on May 26, 2022, (Attachment 6). Confirmatory composite samples were collected from the base and walls of the excavation in 200-square-foot increments. A total of 20 samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Hall Environmental Analysis Laboratory 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 2, Attachment 3 and the laboratory data report can be found in Attachment 6. All confirmatory samples collected and analyzed were below closure criteria for the site.

Additional sampling was conducted to assess one wall sample that was above closure criteria and an additional wall sample was added to the pasture excavation to show all walls were below criteria. Notification of additional confirmation sampling is included in Attachment 6.

After the first remediation efforts were completed, EOG determined that the Dayton remediation needed to be completed to the reclamation standards of NMAC 19.15.29.13. Remediation efforts then continued on December 13, 2022. During excavation activities, from December 13, 2022, to March 1, 2023, EOG provided 13 notifications of confirmation sampling to NMOCD (Attachment 6). The release was remediated horizontally and vertically to reclamation criteria with a Vertex representative on-site to conduct field screening procedures. The final square footage of the excavation was 13,159 square feet. The excavation was completed on March 1, 2023, with all contaminated material hauled to Lea Land Disposal Site New Mexico.

From December 13, 2022, through March 1, 2023, Vertex collected a total of 81 five-point composite confirmatory samples from the base and sidewalls of the excavation, at depths ranging between the ground surface and 4 feet bgs. Each composite sample was representative of no more than 200 square feet per the alternate sampling method outlined in Subparagraph (c) of Paragraph (1) of Subsection D 19.15.29.12 NMAC. The composite samples were placed into laboratory-provided containers, preserved on ice, and submitted to a National Environmental Laboratory Accreditation Program-approved laboratory for chemical analysis.

Field screening consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dextsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons), and Titration (chlorides).

Laboratory analyses included Method 300.0 for chlorides, Method 8021B for volatile organics, including BTEX, and EPA Method 8015 for TPH, including GRO, DRO, and MRO. Confirmatory sample analytical data are summarized in Attachment 3. Laboratory data reports and chain of custody forms are included in Attachment 7.

A GeoExplorer 7000 Series Trimble global positioning system unit, or equivalent, was used to map the approximate center of each of the five-point composite samples. The confirmatory sample locations are presented in Figure 3 (Attachment 2). Relevant equipment and prominent features/reference points at the site are mapped as well.

Closure Request

Vertex recommends no additional remediation action to address the release at Dayton. Laboratory analyses of confirmation samples collected at Dayton show final confirmatory values below NMOCD remediation closure criteria for areas where depth to groundwater is between 51 feet and 100 feet, with the top four feet meeting reclamation requirements of NMAC 19.15.29.13. Laboratory analysis and field screen results are shown in Table 2, Attachment 3. There are no anticipated risks to human, ecological, or hydrological receptors at this release site.

The excavation has been backfilled with non-waste-containing, uncontaminated, earthen material that was sourced locally and placed to meet the site's existing grade to prevent water ponding and erosion.

Vertex and EOG request that this incident (NMLB1122253079) be closed as all requirements set forth in Subsection E

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EOG Resources, Inc.
Dayton ER Battery, NMLB1122253079/2RP-824

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of 19.15.29.12 NMAC have been met. EOG certifies that all information in this report and the attachments are correct and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the release.

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 575.988.1472 or cdixon@vertex.ca.

	3/28/2023
Chance Dixon B.Sc. SR. ENVIRONMENTAL TECHNOLOGIST, REPORTING	Date

Attachments

- Attachment 1. NMOCD C-141 Report
- Attachment 2. Figures
- Attachment 3. Summarized Lab Data Tables
- Attachment 4. Closure Criteria for Soils Impacted by a Release Research Determination Documentation
- Attachment 5. Daily Field Reports with Photographs
- Attachment 6. Required 48-Hour Notifications of Confirmatory Sampling to Regulatory Agencies
- Attachment 7. Laboratory Data Reports and Chain of Custody Forms

References

- Water Column/Average Depth to Water Report.* New Mexico Water Rights Reporting System, (2019). Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html>
- Assessed and Impaired Waters of New Mexico.* New Mexico Department of Surface Water Quality Bureau, (2019). Retrieved from <https://gis.web.env.nm.gov/oem/?map=swqb>
- Interactive Geologic Map.* New Mexico Bureau of Geology and Mineral Resources, (2019). Retrieved from <http://geoinfo.nmt.edu>
- Measured Distance from the Subject Site to Residence.* Google Earth Pro, (2019). Retrieved from <https://earth.google.com>
- Point of Diversion Location Report.* New Mexico Water Rights Reporting System, (2019). Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html>
- Measured Distance from the Subject Site to Municipal Boundaries.* Google Earth Pro, (2019). Retrieved from <https://earth.google.com>
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- Coal Mine Resources in New Mexico.* NM Mining and Minerals Division, (2019). Retrieved from <http://www.emnrd.state.nm.us/MMD/gismapminedata.html>
- New Mexico Cave/Karsts.* United States Department of the Interior, Bureau of Land Management, (2019) Retrieved from <https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico>
- Flood Map Number 35015C1875D.* United States Department of Homeland Security, FEMA Flood Map Service Center, (2010). Retrieved from <https://msc.fema.gov/portal/search?AddressQuery=malaga%20new%20mexico#searchresultsanchor>
- Well Log/Meter Information Report.* NM Office of the State Engineer, New Mexico Water Rights Reporting System. (2019). Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.html>
- Natural Resources and Wildlife Oil and Gas Releases.* New Mexico Oil Conservation Division, (2019). Santa Fe, New Mexico.

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2023 Spill Assessment and Closure
March 2023

Limitations

This report has been prepared for the sole benefit of EOG Resources, Inc. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and EOG Resources, Inc. 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.

ATTACHMENT 1

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1200 S. St. Francis Dr., Santa Fe, NM 87505

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

RECEIVED
JUN 17 2011
NMOCD ARTESIA

Form C-141
Revised October 10, 2003
Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

NMLB1122253079

OPERATOR

Initial Report Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Amanda Trujillo
Address 104 S 4 th Street	Telephone No. 575-748-1471	
Facility Name Dayton ER	API Number 30-015-21629	Facility Type battery
		Order Number 2RP-824
Surface Owner Fee	Mineral Owner fee	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	21	18S	26E	2310	SOUTH	990	EAST	EDDY

NATURE OF RELEASE

Type of Release WATER	Volume of Release 70	Volume Recovered 60
Source of Release Valve broke	Date and Hour of Occurrence 06/03/2011	Date and Hour of Discovery 06/03/2011- PM1
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher - NMOCD/Artesia	
By Whom? Bob Asher - Yates Petroleum Corporation	Date and Hour 06/03/2011 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*

While working on a 2" valve, the valve broke. The others valves were closed to mitigate the damage but several valves did not hold. After getting valves to hold a vacuum truck was called to pick up standing fluid.

Describe Area Affected and Cleanup Action Taken.*

An approx. size of 03' x 30' was impacted. The impacted area is located near the water tank. Vertical and horizontal delineation samples will taken and analysis ran for TPH and BTEX once all contaminated material has been removed. **Depth to Ground Water: >100'** (approx. 134', per New Mexico State Engineers Office); **Wellhead Protection Area: No**; **Distance to Surface Water Body: >1000'**; **SITE RANKING IS 20.**

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

Signature: *A Trujillo*

Printed Name: Amanda Trujillo

Title: Environmental Scientist

E-mail Address: atrujillo@yatespetroleum.com

Date: Friday, June 17, 2011 Phone: 575-748-4310

Attach Additional Sheets If Necessary

OIL CONSERVATION DIVISION

Signed By *Mike Bratcher*

Approved by District Supervisor:

Approval Date: **AUG 10 2011**

Expiration Date:

Conditions of Approval:

Attached

Remediation per OCD Rules & Guidelines. **SUBMIT REMEDIATION PROPOSAL NOT LATER THAN: 9/10/2011**

2RP-824

State of New Mexico
Oil Conservation Division

Incident ID	nMLB1122253079
District RP	2RP-824
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Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Greater than 25 bbls released.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, email to Mike Bratcher via email 6/03/2011 by Amanda Trujillo	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Chase Settle</u> Title: <u>Rep Safety & Environmental Sr</u> Signature: <u>Chase Settle</u> Date: <u>05/26/2022</u> email: <u>Chase_Settle@eogresources.com</u> Telephone: <u>575-748-4171</u>
<u>OCD Only</u> Received by: _____ Date: _____

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Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	> 55 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

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

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

Signature: Chase Settle Date: 05/26/2022

email: Chase_Settle@eogresources.com Telephone: 575-748-4171

OCD Only

Received by: Mike Buchanan Date: 05.01.2023

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Remediation Plan

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

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

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

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

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

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

Signature: Chase Settle Date: 05/26/2022

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

OCD Only

Received by: Mike Buchanan Date: 05/01/2023

Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: Michael Buchanan Date: 05/01/2023

Incident ID	nMLB1122253079
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Closure

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

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

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

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
 Signature: Chase Settle Date: 3/28/2023
 email: chase.settle@eogresources.com Telephone: 575-703-1471

OCD Only

Received by: Mike Buchanan Date: 05.01.2023

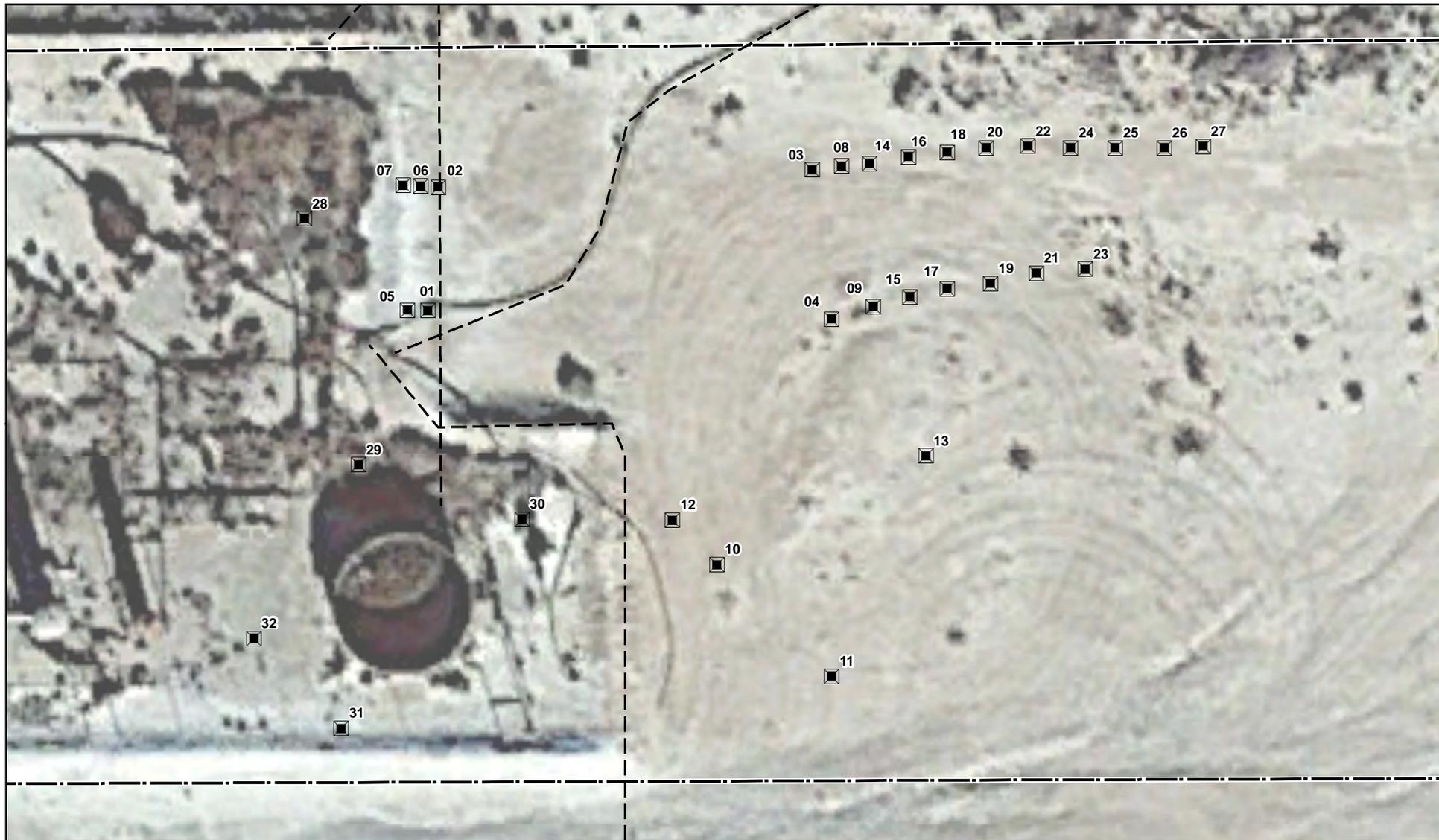
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance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

Closure Approved by: Michael Buchanan Date: 05.01.2023

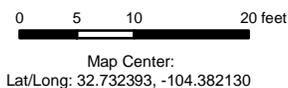
Printed Name: Michael Buchanan Title: Environmental Specialist

ATTACHMENT 2

Document Path: G:\Projects\US PROJECTS\EOG Resources Inc\22E-0012301 - Dayton ER Battery\Figure 1 Characterization Dayton ER Battery.mxd



Testpit (Prefixed with "TP22-")
 Flowline
 Approximate Lease Boundary



NAD 1983 UTM Zone 13N
Date: Nov 04/22



Characterization Schematic Dayton ER Battery

FIGURE:

1

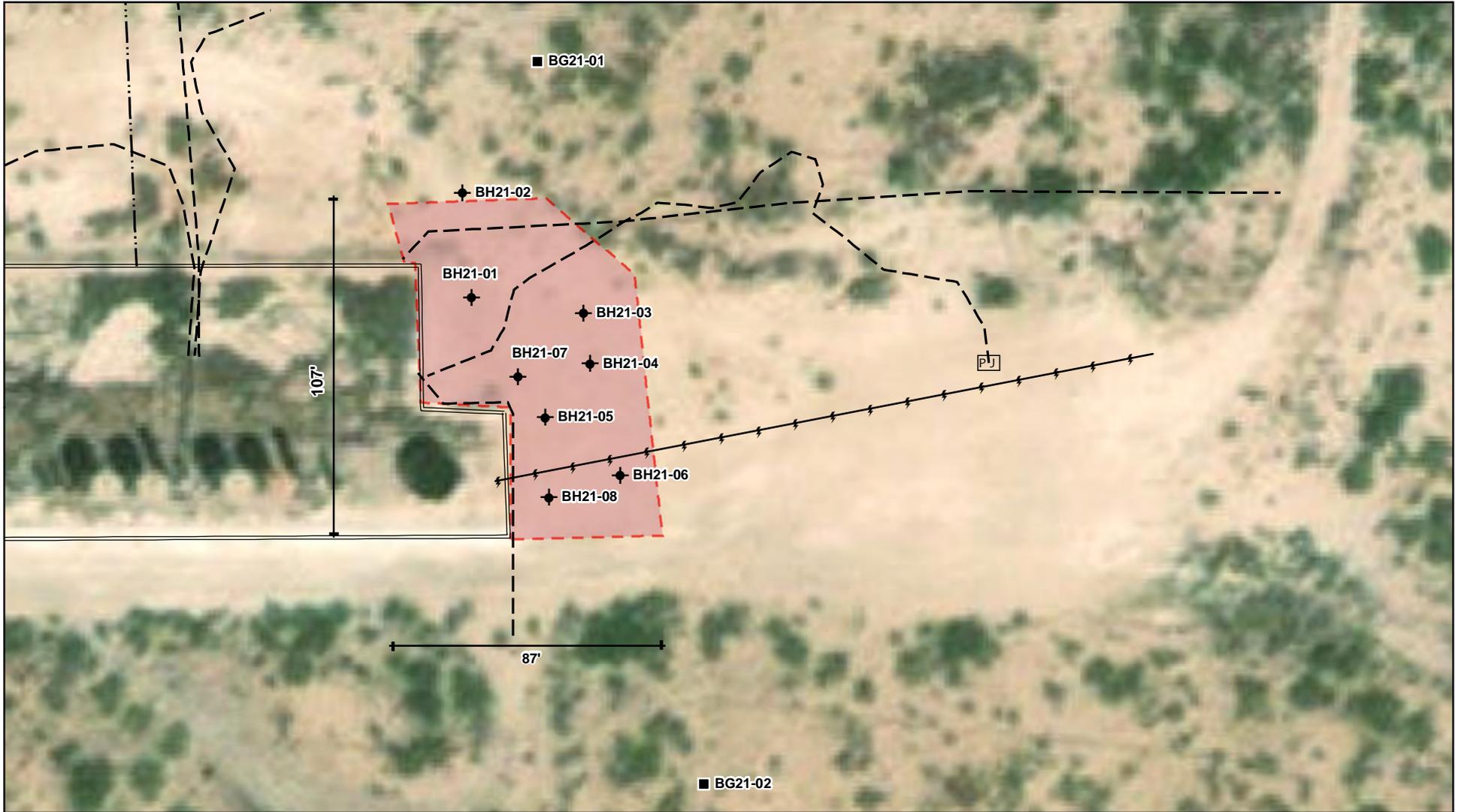


Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

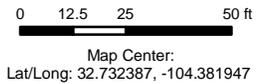
Note: Background imagery from Google Earth, 2019. Features from GPS. Vertex Professional Services Ltd., 2022.

VERSATILITY. EXPERTISE.

Document Path: \\vvs-fs-1501\share\atlvs\04 - Geomatics\1-Projects\US PROJECTS\EOG Resources Inc\21E-03278\001 - Dayton ER Battery\Figure 1 Characterization Schematic Dayton ER Battery.mxd



- Background Sample
- ◆ Borehole
- [PJ] Pumpjack
- ⚡ Electrical Line
- - - Pipeline (Aboveground)
- ⋯ Pipeline (Underground)
- Containment Area
- Approximate Release Area (~6204 sq. ft)



NAD 1983 UTM Zone 13N
Date: Jan 11/22



**Characterization Schematic
Dayton ER Battery**

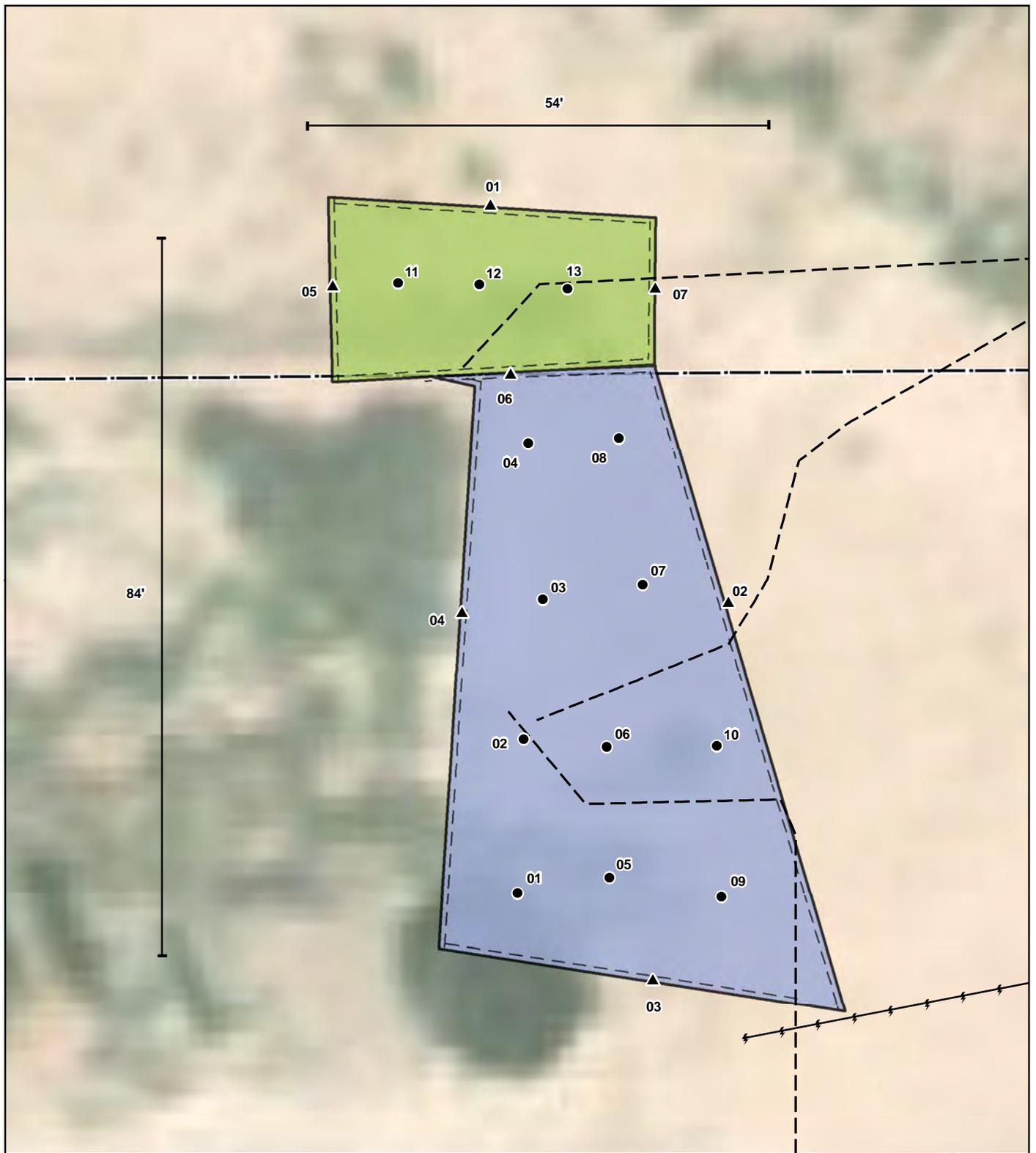
FIGURE:

1



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Imagery from ESRI, 2020. Borehole locations from GPS, Vertex Professional Services, Ltd., 2021.



- Base Sample (Prefixed by "BS22-")
 - ▲ Wall Sample (Prefixed by "WS22-")
 - ⚡ Electrical Line
 - - Pipeline (Aboveground)
 - ⋯ Pipeline (Underground)
 - ▭ 1' Excavation Area (~1,919 sq. ft.)
 - ▭ 4' Excavation Area (~586 sq. ft.)
 - ▭ Approximate Lease Boundary
- Total Excavation Area ~3,082 sq. ft.

Document Path: G:\1-Projects\US PROJECTS\IEOG Resources Inc\22E-0012301 - Dayton ER Battery\Figure 3 Confirmation Dayton ER Battery.mxd

0 3.75 7.5 15 ft.

NAD 1983 UTM Zone 13N
Date: Jul 12/22

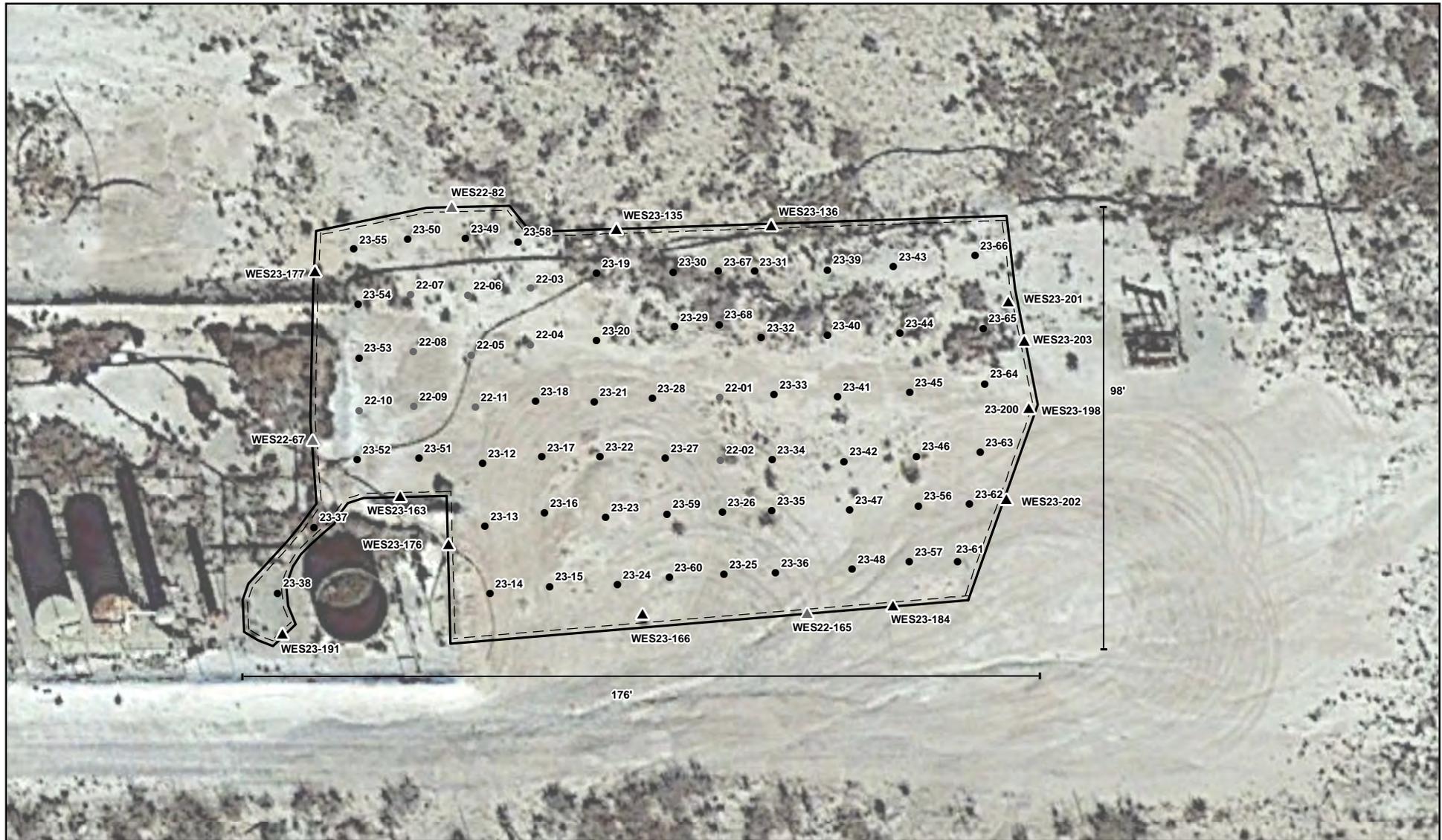
Map Center:
Lat: 32.732456,
Long: -104.382262

Confirmation Schematic Dayton ER Battery

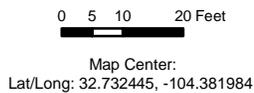
FIGURE:
1

Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes. Note: Background imagery from Esri, 2021. Feature locations from GPS, Vertex Professional Services., 2022

Document Path: G:\Projects\US PROJECTS\EOG Resources Inc\22E-0012301 - Dayton ER Battery\Figure 2 Confirmation Dayton ER Battery_Additonal.mxd



- Base Sample (Prefixed by "BES22-")
- Base Sample (Prefixed by "BES23-")
- ▲ Wall Sample (Prefixed by "WES22-")
- ▲ Wall Sample
- Excavation to 4' (~13,159 sq. ft.)



NAD 1983 UTM Zone 13N
Date: Mar 01/23



Confirmatory Schematic Dayton ER Battery

FIGURE:

2



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Background imagery from Google Earth, 2019. Features from GPS. Vertex Professional Services Ltd., 2023.

VERSATILITY. EXPERTISE.

ATTACHMENT 3

Client Name: EOG Resources, Inc.
 Site Name: Dayton ER Battery
 NM OCD Tracking #: NMLB1122253079, 2RP-824
 Project #: 22E-00123
 Lab Report(s): 2111132, 2111219, 2111130

Table 2. Initial Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater 51-100 feet bgs												
Sample Description			Field Screening			Petroleum Hydrocarbons						Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable				Chloride Concentration
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BG21-01	0	2021-11-01	0	-	0	ND	ND	ND	ND	ND	ND	ND
BG21-01	1	2021-11-01	0	-	0	ND	ND	ND	ND	ND	ND	ND
BG21-01	2	2021-11-01	0	-	883	ND	ND	ND	ND	ND	ND	270
BG21-01	3	2021-11-01	0	-	2,457	ND	ND	ND	ND	ND	ND	600
BG21-01	4	2021-11-01	0	-	1,150	ND	ND	ND	ND	ND	ND	140
BG21-01	5	2021-11-01	0	-	4,185	ND	ND	ND	ND	ND	ND	840
BG21-01	6	2021-11-01	0	-	4,351	ND	ND	ND	ND	ND	ND	670
BG21-01	7	2021-11-01	0	-	3,909	ND	ND	ND	ND	ND	ND	500
BG21-01	8	2021-11-01	0	-	3,175	ND	ND	ND	ND	ND	ND	690
BG21-02	0	2021-11-02	0	-	72	ND	ND	ND	ND	ND	ND	ND
BG21-02	1	2021-11-02	0	-	259	ND	ND	ND	ND	ND	ND	ND
BG21-02	2	2021-11-02	0	-	710	ND	ND	ND	ND	ND	ND	240
BG21-02	3	2021-11-02	0	-	1,362	ND	ND	ND	ND	ND	ND	570
BG21-02	4	2021-11-02	0	-	3,667	ND	ND	ND	ND	ND	ND	410
BG21-02	5	2021-11-02	0	-	3,821	ND	ND	ND	ND	ND	ND	530
BG21-02	6	2021-11-02	0	-	2,391	ND	ND	ND	ND	ND	ND	480
BH21-01	0	2021-11-01	0	-	8,411	ND	ND	ND	630	580	1210	12000
BH21-01	1	2021-11-01	0	-	7,689	-	-	-	-	-	-	-
BH21-01	2	2021-11-01	0	-	7,974	-	-	-	-	-	-	-
BH21-01	3	2021-11-01	0	-	11,416	-	-	-	-	-	-	-
BH21-01	4	2021-11-01	0	36	7,847	ND	ND	ND	ND	ND	ND	4000
BH21-01	5	2021-11-01	0	-	3,650	-	-	-	-	-	-	-
BH21-01	6	2021-11-01	0	-	2,543	-	-	-	-	-	-	-
BH21-01	7	2021-11-01	0	-	2,411	-	-	-	-	-	-	-
BH21-01	8	2021-11-01	0	-	2,385	ND	ND	ND	ND	ND	ND	900
BH21-01	9	2021-11-01	0	-	1,636	-	-	-	-	-	-	-
BH21-01	10	2021-11-01	0	-	1,628	-	-	-	-	-	-	-
BH21-01	11	2021-11-01	0	-	1,190	ND	ND	ND	ND	ND	ND	790
BH21-02	0	2021-11-01	0	-	1,551	ND	ND	ND	ND	ND	ND	170
BH21-02	1	2021-11-01	0	-	1,840	-	-	-	-	-	-	-
BH21-02	2	2021-11-01	0	-	3,116	ND	ND	ND	ND	ND	ND	780
BH21-02	3	2021-11-01	0	-	3,331	-	-	-	-	-	-	-
BH21-02	4	2021-11-01	0	77	1,042	ND	ND	ND	ND	ND	ND	800
BH21-02	5	2021-11-01	0	-	2,641	-	-	-	-	-	-	-
BH21-02	6	2021-11-01	0	-	1,444	ND	ND	ND	ND	ND	ND	420
BH21-02	7	2021-11-01	0	-	1,534	-	-	-	-	-	-	-
BH21-02	8	2021-11-01	0	11	2,518	ND	ND	ND	ND	ND	ND	560
BH21-03	0	2021-11-01	0	-	1,355	ND	ND	ND	43	93	136	750
BH21-03	1	2021-11-01	0	-	2,089	-	-	-	-	-	-	-
BH21-03	2	2021-11-01	0	-	2,212	ND	ND	ND	ND	ND	ND	1300
BH21-03	3	2021-11-01	0	-	5,243	-	-	-	-	-	-	-
BH21-03	4	2021-11-01	0	55	2,405	ND	ND	ND	ND	ND	ND	2200
BH21-03	5	2021-11-01	0	-	2,802	-	-	-	-	-	-	-
BH21-03	6	2021-11-01	0	-	2,649	ND	ND	ND	ND	ND	ND	1700
BH21-03	7	2021-11-01	0	-	5,973	-	-	-	-	-	-	-
BH21-03	8	2021-11-01	0	66	3,157	ND	ND	ND	ND	ND	ND	3500
BH21-04	0	2021-11-02	0	20	1,779	ND	ND	ND	ND	ND	ND	590



Table 2. Initial Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater 51-100 feet bgs												
Sample Description			Field Screening			Petroleum Hydrocarbons						Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (Petroflag)	Chloride Concentration	Volatile		Extractable				
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH21-04	1	2021-11-02	0	-	3,222	-	-	-	-	-	-	-
BH21-04	2	2021-11-02	0	-	6,122	ND	ND	ND	ND	ND	ND	2400
BH21-04	3	2021-11-02	0	-	5,514	-	-	-	-	-	-	-
BH21-04	4	2021-11-02	0	-	5,523	ND	ND	ND	ND	ND	ND	2000
BH21-04	5	2021-11-02	0	-	3,498	-	-	-	-	-	-	-
BH21-04	6	2021-11-02	0	-	2,768	ND	ND	ND	ND	ND	ND	670
BH21-04	7	2021-11-02	0	-	1,622	-	-	-	-	-	-	-
BH21-04	8	2021-11-02	0	19	1,473	ND	ND	ND	ND	ND	ND	400
BH21-05	0	2021-11-02	0	35	4,210	ND	ND	ND	ND	ND	ND	4100
BH21-05	1	2021-11-02	0	-	6,125	-	-	-	-	-	-	-
BH21-05	2	2021-11-02	0	-	6,273	ND	ND	ND	ND	ND	ND	2300
BH21-05	3	2021-11-02	0	-	5,791	-	-	-	-	-	-	-
BH21-05	4	2021-11-02	0	-	8,114	ND	ND	ND	ND	ND	ND	5200
BH21-05	5	2021-11-02	0	-	4,619	-	-	-	-	-	-	-
BH21-05	6	2021-11-02	0	-	3,142	ND	ND	ND	ND	ND	ND	2600
BH21-05	7	2021-11-02	0	-	3,010	-	-	-	-	-	-	-
BH21-05	7.5	2021-11-02	0	86	3,002	ND	ND	ND	ND	ND	ND	1800
BH21-06	0	2021-11-02	0	25	401	ND	ND	ND	ND	ND	ND	220
BH21-06	1	2021-11-02	0	-	2,732	-	-	-	-	-	-	-
BH21-06	2	2021-11-02	0	-	4,464	ND	ND	ND	ND	ND	ND	1000
BH21-06	3	2021-11-02	0	-	4,236	-	-	-	-	-	-	-
BH21-06	4	2021-11-02	0	-	2,359	ND	ND	ND	ND	ND	ND	900
BH21-06	5	2021-11-02	0	-	3,671	-	-	-	-	-	-	-
BH21-06	6	2021-11-02	0	-	1,822	ND	ND	ND	ND	ND	ND	330
BH21-06	7	2021-11-02	0	-	1,197	-	-	-	-	-	-	-
BH21-06	7.5	2021-11-02	0	43	1,193	ND	ND	ND	ND	ND	ND	270
BH21-07	0	2021-11-02	0	6,500	8,291	ND	ND	ND	640	700	1340	6800
BH21-07	1	2021-11-02	0	-	6,931	-	-	-	-	-	-	-
BH21-07	2	2021-11-02	0	-	9,144	ND	ND	ND	ND	ND	ND	5500
BH21-07	3	2021-11-02	0	-	6,865	-	-	-	-	-	-	-
BH21-07	4	2021-11-02	0	-	7,067	ND	ND	ND	ND	ND	ND	3800
BH21-07	5	2021-11-02	0	-	8,297	-	-	-	-	-	-	-
BH21-07	6	2021-11-02	0	-	4,937	-	-	-	-	-	-	-
BH21-07	6.5	2021-11-02	0	28	2,597	ND	ND	ND	ND	ND	ND	4100
BH21-08	0	2021-11-02	0	196	2,657	ND	ND	ND	ND	ND	ND	1700
BH21-08	1	2021-11-02	0	-	2,114	-	-	-	-	-	-	-
BH21-08	2	2021-11-02	0	-	4,415	ND	ND	ND	ND	ND	ND	690
BH21-08	3	2021-11-02	0	-	4,036	-	-	-	-	-	-	-
BH21-08	4	2021-11-02	0	-	1,718	ND	ND	ND	ND	ND	ND	660
BH21-08	5	2021-11-02	0	-	1,079	-	-	-	-	-	-	-
BH21-08	6	2021-11-02	0	-	1,232	-	-	-	-	-	-	-
BH21-08	6.5	2021-11-02	0	84	1,713	ND	ND	ND	ND	ND	ND	800
BH22-09	0	2022-06-29	0	89	72							
BH22-09	2	2022-06-29	0	115	3,181							
BH22-10	0	2022-06-29	0	361	1,770							
BH22-10	2	2022-06-29	0	70	1,046							
BH22-11	0	2022-06-29	0	43	0							
BH22-11	2	2022-06-29	0	44	0							
BH22-12	0	2022-07-12	0	17	0	ND	ND	ND	ND	ND	ND	ND
BH22-12	2	2022-07-12	0	24	0	ND	ND	ND	ND	ND	ND	ND
BH22-13	0	2022-07-12	0	31	0	ND	ND	ND	ND	ND	ND	ND
BH22-13	2	2022-07-12	0	11	0	ND	ND	ND	ND	ND	ND	ND
TP22-01	0-4'	2022-09-12	-	1,105	9,328	-	-	-	-	-	-	-



Sample Description			Field Screening			Petroleum Hydrocarbons						Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable				Chloride Concentration
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
TP22-02	0-4'	2022-09-12	-	1,099	8,880	-	-	-	-	-	-	-
TP22-03	0-4'	2022-09-12	-	37	5,787	-	-	-	-	-	-	-
TP22-04	0-4'	2022-09-12	-	40	6,123	-	-	-	-	-	-	-
TP22-05	0-4'	2022-09-12	-	1,186	8,437	ND	ND	ND	410	990	1400	7200
TP22-06	0-4'	2022-09-12	-	1,164	8,643	-	-	-	-	-	-	-
TP22-07	0-4'	2022-09-12	-	1,182	8,694	ND	ND	ND	280	700	980	6600
TP22-08	0-4'	2022-09-12	-	88	4,621	ND	ND	ND	ND	ND	ND	2800
TP22-09	0-4'	2022-09-12	-	41	3,611	ND	ND	ND	ND	ND	ND	2300
TP22-10	0-4'	2022-09-13	-	129	2,960	-	-	-	-	-	-	-
TP22-11	0-4'	2022-09-13	-	374	2,040	-	-	-	-	-	-	-
TP22-12	0-4'	2022-09-13	-	31	5,715	-	-	-	-	-	-	-
TP22-13	0-4'	2022-09-13	-	58	965	-	-	-	-	-	-	-
TP22-14	0-4'	2022-09-13	-	72	2,445	-	-	-	-	-	-	-
TP22-15	0-4'	2022-09-13	-	32	1,845	-	-	-	-	-	-	-
TP22-16	0-4'	2022-09-13	-	60	1,100	-	-	-	-	-	-	-
TP22-17	0-4'	2022-09-13	-	41	1,915	-	-	-	-	-	-	-
TP22-18	0-4'	2022-09-13	-	30	1,500	-	-	-	-	-	-	-
TP22-19	0-4'	2022-09-13	-	23	1,178	-	-	-	-	-	-	-
TP22-20	0-4'	2022-09-14	-	64	1,275	ND	ND	ND	ND	ND	ND	800
TP22-21	0-4'	2022-09-14	-	40	855	-	-	-	-	-	-	-
TP22-22	0-4'	2022-09-14	-	40	1,118	ND	ND	ND	ND	ND	ND	1400
TP22-23	0-4'	2022-09-27	-	30	900	ND	ND	ND	ND	ND	ND	1300
TP22-24	0-4'	2022-09-15	-	46	1,450	-	-	-	-	-	-	-
TP22-25	0-4'	2022-09-15	-	39	1,120	-	-	-	-	-	-	-
TP22-26	0-4'	2022-09-15	-	40	810	ND	ND	ND	ND	ND	ND	360
TP22-27	0-4'	2022-09-16	-	1,240	1,260	-	-	-	-	-	-	-
TP22-28	0-4'	2022-09-20	-	78	290	ND	ND	ND	ND	ND	ND	73
TP22-29	0-4'	2022-09-27	-	37	2,055	ND	ND	ND	ND	ND	ND	3000
TP22-30	0-4'	2022-09-27	-	1,066	413	ND	ND	ND	150	450	600	280
TP22-31	2'	2022-11-01	-	272	1,660	ND	ND	ND	ND	59	59	970
TP22-31	4'	2022-11-01	-	37	1,360	ND	ND	ND	ND	ND	ND	1300
TP22-32	2'	2022-11-01	-	21	2,750	ND	ND	ND	ND	ND	ND	2300
TP22-32	4'	2022-11-01	-	26	2,325	ND	ND	ND	ND	ND	ND	1900

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria (on-pad)



Client Name: EOG Resources, Inc.
 Site Name: Dayton ER Battery
 NMOCD Tracking #: NMLB1122253079/2RP-824
 Project #: 22E-00123-01
 Lab Reports: 2206109, 2206391, 2206D52

Table 3. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater 51-100 feet bgs

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID) (ppm)	Extractable Organic Compounds (PetroFlag) (ppm)	Chloride Concentration (ppm)	Volatile		Extractable					Chloride Concentration (mg/kg)
						Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	
BS22-01	3	6/1/2022				ND	ND	ND	68	65	68	133	2700
BS22-02	1	6/3/2022				ND	ND	ND	110	240	110	350	6800
BS22-03	1	6/3/2022				ND	ND	ND	130	270	130	400	8200
BS22-04	1	6/3/2022				ND	ND	ND	ND	ND	ND	ND	1800
BS22-05	1	6/3/2022				ND	ND	ND	190	350	190	540	5300
BS22-06	1	6/3/2022				ND	ND	ND	ND	ND	ND	ND	3400
BS22-07	1	6/3/2022				ND	ND	ND	ND	ND	ND	ND	3100
BS22-08	1	6/3/2022				ND	ND	ND	ND	ND	ND	ND	1700
BS22-09	1	6/3/2022				ND	ND	ND	ND	ND	ND	ND	3400
BS22-10	1	6/3/2022				ND	ND	ND	ND	ND	ND	ND	3900
BS22-11	4	6/3/2022				ND	ND	ND	ND	ND	ND	ND	390
BS22-12	4	6/3/2022				ND	ND	ND	ND	ND	ND	ND	500
BS22-13	4	6/3/2022				ND	ND	ND	ND	ND	ND	ND	1100
WS22-01	0-4	6/3/2022				ND	ND	ND	ND	ND	ND	ND	470
WS22-02	0-1	5/31/2022				ND	ND	ND	ND	ND	ND	ND	3800
WS22-03	0-1	5/31/2022				ND	ND	ND	91	150	91	241	4800
WS22-04	0-3	6/3/2022				ND	ND	ND	ND	ND	ND	ND	11000
WS22-04	0-3	6/23/2022				ND	ND	ND	ND	ND	ND	ND	7400
WS22-05	0-4	6/3/2022				ND	ND	ND	ND	ND	ND	ND	270
WS22-06	0-4	6/3/2022				ND	ND	ND	ND	ND	ND	ND	870
WS22-07	0-4	6/23/2022				ND	ND	ND	ND	ND	ND	ND	800

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria

Bold and green shaded indicates samples recollected and below criteria



Client Name: EOG Resources, Inc.

Site Name: Dayton ER Battery

NMOCD Tracking #: NMLB1122253079

Project #: 22E-00123-01

Lab Report(sX): 2301062, 2301377, 2301630, 2301707, 2301814, 2301A28, 2301A83, 2301B20, 2302003, 2302138, 2302261, 2302196, 2302778, 2302A11, 23C

Table 3. Excavation Sample Field Screen and Laboratory Results - Depth to Groundwater 51-100 Feet BGS (Reclamation)

Sample Description		Field Screening			Petroleum Hydrocarbons							Inorganic	
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration (ppm)	Volatile		Extractable					Chloride Concentration (mg/kg)
						Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	
BES22-01	4'	12/18/2022	-	107	829	ND	ND	ND	ND	ND	ND	ND	1900
BES22-02	4'	12/18/2022	-	175	687	ND	ND	ND	48	48	48	96	1200
BES22-03	4'	12/20/2022	-	23	936	ND	ND	ND	ND	ND	ND	ND	1900
BES22-04	4'	12/29/2022	-	297	2,330	ND	ND	ND	87	73	87	160	1800
BES22-05	4'	12/29/2022	-	536	6,130	ND	ND	ND	340	310	340	650	5700
BES22-06	4'	12/29/2022	-	144	2,388	ND	ND	ND	30	ND	30	30	1300
BES22-07	4'	12/29/2022	-	38	978	ND	ND	ND	ND	ND	ND	ND	670
BES22-08	4'	12/29/2022	-	41	2,243	ND	ND	ND	ND	ND	ND	ND	950
BES22-09	4'	12/29/2022	-	30	2,193	ND	ND	ND	ND	ND	ND	ND	1500
BES22-10	4'	12/30/2022	-	287	4,818	ND	ND	ND	240	290	240	530	2200
BES22-11	4'	12/30/2022	-	216	5,503	ND	ND	ND	52	77	52	129	2500
BES23-12	4'	1/25/2023	-	205	720	ND	ND	ND	27	ND	ND	27	650
BES23-13	4'	1/25/2023	-	110	1,128	ND	ND	ND	ND	ND	ND	ND	720
BES23-14	4'	1/25/2023	-	116	835	ND	ND	ND	ND	ND	ND	ND	740
BES23-15	4'	1/25/2023	-	31	413	ND	ND	ND	ND	ND	ND	ND	230
BES23-16	4'	1/25/2023	-	64	505	ND	ND	ND	ND	ND	ND	ND	300
BES23-17	4'	1/25/2023	-	105	788	ND	ND	ND	ND	ND	ND	ND	390
BES23-18	4'	1/25/2023	-	74	1,100	ND	ND	ND	ND	ND	ND	ND	830
BES23-19	4'	1/26/2023	3	118	1,050	ND	ND	ND	ND	ND	ND	ND	690
BES23-20	4'	1/26/2023	2	119	885	ND	ND	ND	ND	ND	ND	ND	430
BES23-21	4'	1/26/2023	2	82	745	ND	ND	ND	ND	ND	ND	ND	380
BES23-22	4'	1/26/2023	-	39	825	ND	ND	ND	ND	ND	ND	ND	380
BES23-23	4'	1/26/2023	-	38	698	ND	ND	ND	ND	ND	ND	ND	270
BES23-24	4'	1/26/2023	-	13	550	ND	ND	ND	ND	ND	ND	ND	220
BES23-25	4'	1/26/2023	-	13	728	ND	ND	ND	ND	ND	ND	ND	290
BES23-26	4'	1/26/2023	-	52	753	ND	ND	ND	ND	ND	ND	ND	340
BES23-27	4'	1/26/2023	-	39	493	ND	ND	ND	ND	ND	ND	ND	120
BES23-28	4'	1/26/2023	-	132	655	ND	ND	ND	ND	ND	ND	ND	160
BES23-29	4'	1/26/2023	-	136	1,163	ND	ND	ND	12	ND	12	12	620
BES23-30	4'	1/26/2023	-	73	708	ND	ND	ND	ND	ND	ND	ND	150
BES23-31	4'	1/27/2023	1	40	663	ND	ND	ND	ND	ND	ND	ND	240
BES23-32	4'	1/27/2023	2	77	553	ND	ND	ND	ND	ND	ND	ND	180
BES23-33	4'	1/27/2023	2	77	638	ND	ND	ND	ND	ND	ND	ND	360
BES23-34	4'	1/27/2023	2	69	568	ND	ND	ND	ND	ND	ND	ND	280
BES23-35	4'	1/27/2023	2	56	533	ND	ND	ND	ND	ND	ND	ND	200
BES23-36	4'	1/27/2023	1	57	743	ND	ND	ND	ND	ND	ND	ND	280
BES23-37	4'	1/27/2023	3	1,126	748	ND	ND	ND	570	670	570	1240	240
BES23-38	4'	1/27/2023	2	189	1,908	ND	ND	ND	21	ND	21	21	1300
BES23-39	4'	1/30/2023	1	138	788	ND	ND	ND	ND	ND	ND	ND	330
BES23-40	4'	1/30/2023	1	82	1,928	ND	ND	ND	ND	ND	ND	ND	1100
BES23-41	4'	1/30/2023	1	72	2,053	ND	ND	ND	ND	ND	ND	ND	1700
BES23-42	4'	1/30/2023	1	86	783	ND	ND	ND	13	ND	13	13	390
BES23-43	4'	1/30/2023	1	350	775	ND	ND	ND	19	ND	19	19	320
BES23-44	4'	1/30/2023	1	281	795	ND	ND	ND	26	67	26	93	610
BES23-45	4'	1/30/2023	1	142	1,123	ND	ND	ND	15	ND	15	15	760
BES23-46	4'	1/30/2023	1	88	1,605	ND	ND	ND	13	ND	13	13	1200
BES23-47	4'	1/30/2023	1	119	1,300	ND	ND	ND	24	60	24	84	950
BES23-48	4'	1/30/2023	1	26	443	ND	ND	ND	ND	ND	ND	ND	290
BES23-49	4'	1/30/2023	2	254	423	ND	ND	ND	ND	ND	ND	ND	110
BES23-50	4'	1/30/2023	4	426	790	ND	ND	ND	170	140	170	310	610
BES23-51	4'	2/1/2023	1	796	2,348	ND	ND	ND	470	450	470	920	2100
BES23-52	4.5'	2/2/2023	1	5,200	1,813	-	ND	ND	ND	ND	ND	ND	1200



BES23-53	4'	2/1/2023	2	266	1,490	ND	ND	ND	68	87	68	155	980
BES23-54	4.5'	3/1/2023	-	235	987	ND	ND	ND	ND	ND	ND	ND	2100
BES23-55	4'	2/1/2023	1	87	1,060	ND	ND	ND	13	ND	13	13	850
BES23-56	4'	2/1/2023	1	60	1,423	ND	ND	ND	ND	ND	ND	ND	920
BES23-57	4'	2/1/2023	1	28	708	ND	ND	ND	ND	ND	ND	ND	330
BES23-58	4'	2/1/2023	1	93	973	ND	ND	ND	ND	ND	ND	ND	690
BES23-59	4'	2/21/2023	-	163	6,142	ND	ND	ND	12	ND	12	12	3800
BES23-60	4'	2/21/2023	-	194	4,202	ND	ND	ND	23	ND	23	23	1000
BES23-61	4'	2/21/2023	-	107	4,005	ND	ND	ND	ND	ND	ND	ND	1900
BES23-62	4'	2/21/2023	-	520	3,706	ND	ND	ND	85	120	85	205	1900
BES23-63	4'	2/21/2023	-	224	6,704	ND	ND	ND	34	ND	34	34	3600
BES23-64	4'	2/21/2023	-	247	6,578	ND	ND	ND	27	ND	27	27	3000
BES23-65	4'	2/21/2023	-	61	5,620	ND	ND	ND	ND	ND	ND	ND	2300
BES23-66	4'	2/21/2023	-	51	3,566	ND	ND	ND	ND	ND	ND	ND	880
BES23-67	4'	2/21/2023	-	75	4,172	ND	ND	ND	ND	ND	ND	ND	1600
BES23-68	4'	2/21/2023	-	115	4,553	ND	ND	ND	12	ND	ND	ND	2000
WES22-67	0-4'	12/23/2022	-	13	575	ND	ND	ND	ND	ND	ND	ND	120
WES22-82	0-4'	12/29/2022	ND	20	337	ND	ND	ND	ND	ND	ND	ND	74
WES23-135	0-4'	1/9/2023	-	-	827	ND	ND	ND	ND	ND	ND	ND	350
WES23-136	0-4'	1/9/2023	-	-	967	ND	ND	ND	ND	ND	ND	ND	520
WES23-163	0-4'	1/17/2023	-	56	543	ND	ND	ND	ND	ND	ND	ND	180
WES23-165	0-4'	1/17/2023	-	33	753	ND	ND	ND	ND	ND	ND	ND	460
WES23-166	0-4'	1/17/2023	-	38	785	ND	ND	ND	ND	ND	ND	ND	430
WES23-191	0-4'	1/30/2023	1	152	545	ND	ND	ND	14	ND	14	14	350
WES23-202	0-4'	2/3/2023	-	32	845	ND	ND	ND	ND	ND	ND	ND	310
WES23-203	0-4'	2/3/2023	-	122	945	ND	ND	ND	ND	ND	ND	ND	340
WES23-204	0-4'	2/15/2023	-	28	378	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

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



ATTACHMENT 4

Closure Criteria Worksheet			
Site Name: Dayton ER Battery			
Spill Coordinates: 32.7324486, -104.3815918		X: 32.7324486	Y: -104.3815918
Site Specific Conditions		Value	Unit
1	Depth to Groundwater	55	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	22,187	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	47,295	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	1,438	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	1,438	feet
	ii) Within 1000 feet of any fresh water well or spring	1,438	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	2,899	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
10	Within a 100-year Floodplain	Undetermined	year
11	Soil Type	Karro laom and Reeves loam	
12	Ecological Classification	Loamy	
13	Geology	Qp-Piedmont alluvial deposits	
NMAC 19.15.29.12 E (Table 1) Closure Criteria		51-100'	<50' 51-100' >100'

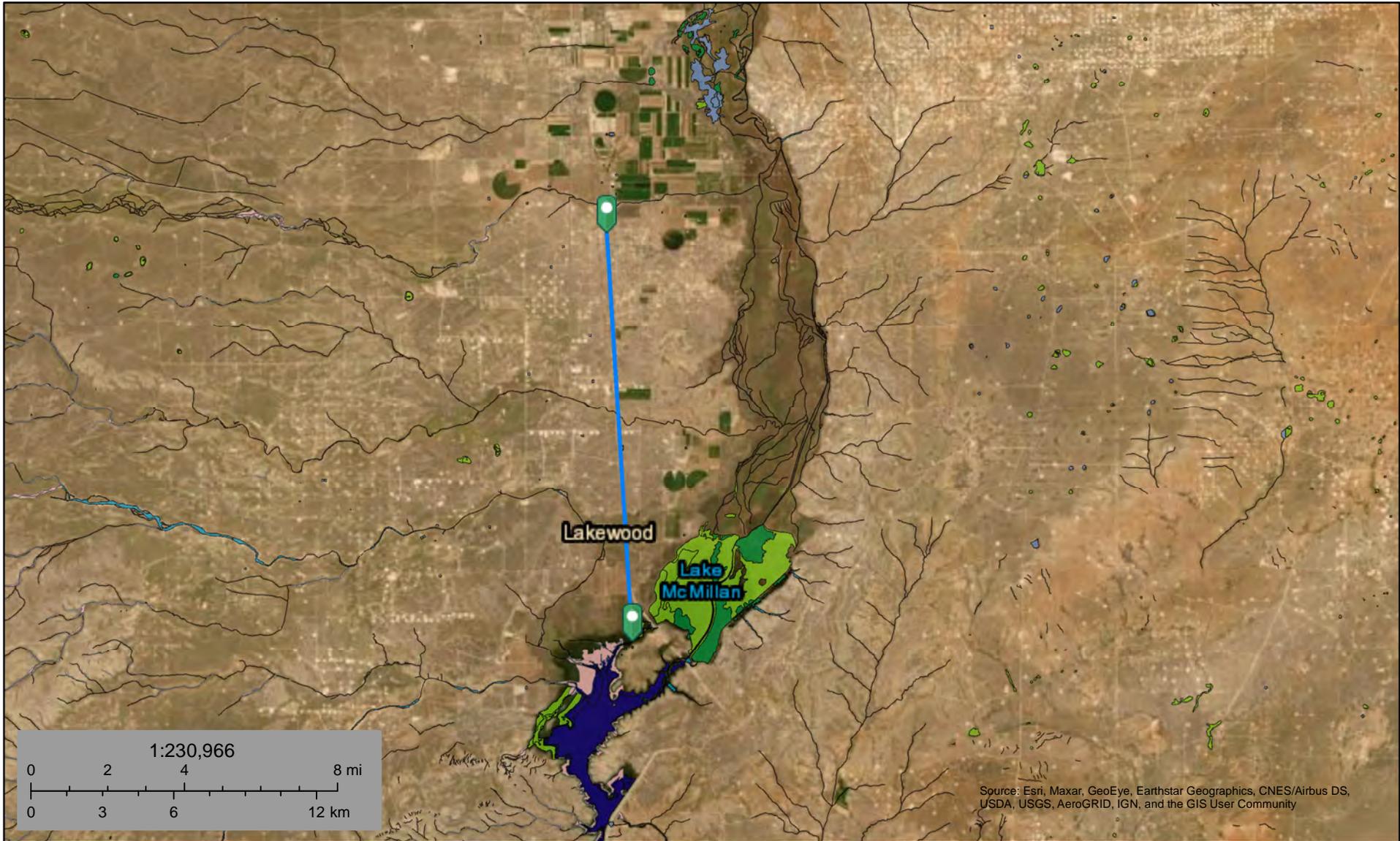
Column1
Critical
High
Medium
Low

Column1
Yes
No

<50'
51-100'
>100'



Dayton ER Battery



September 2, 2021

Wetlands

- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland
- Lake
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Other
- Estuarine and Marine Wetland
- Riverine

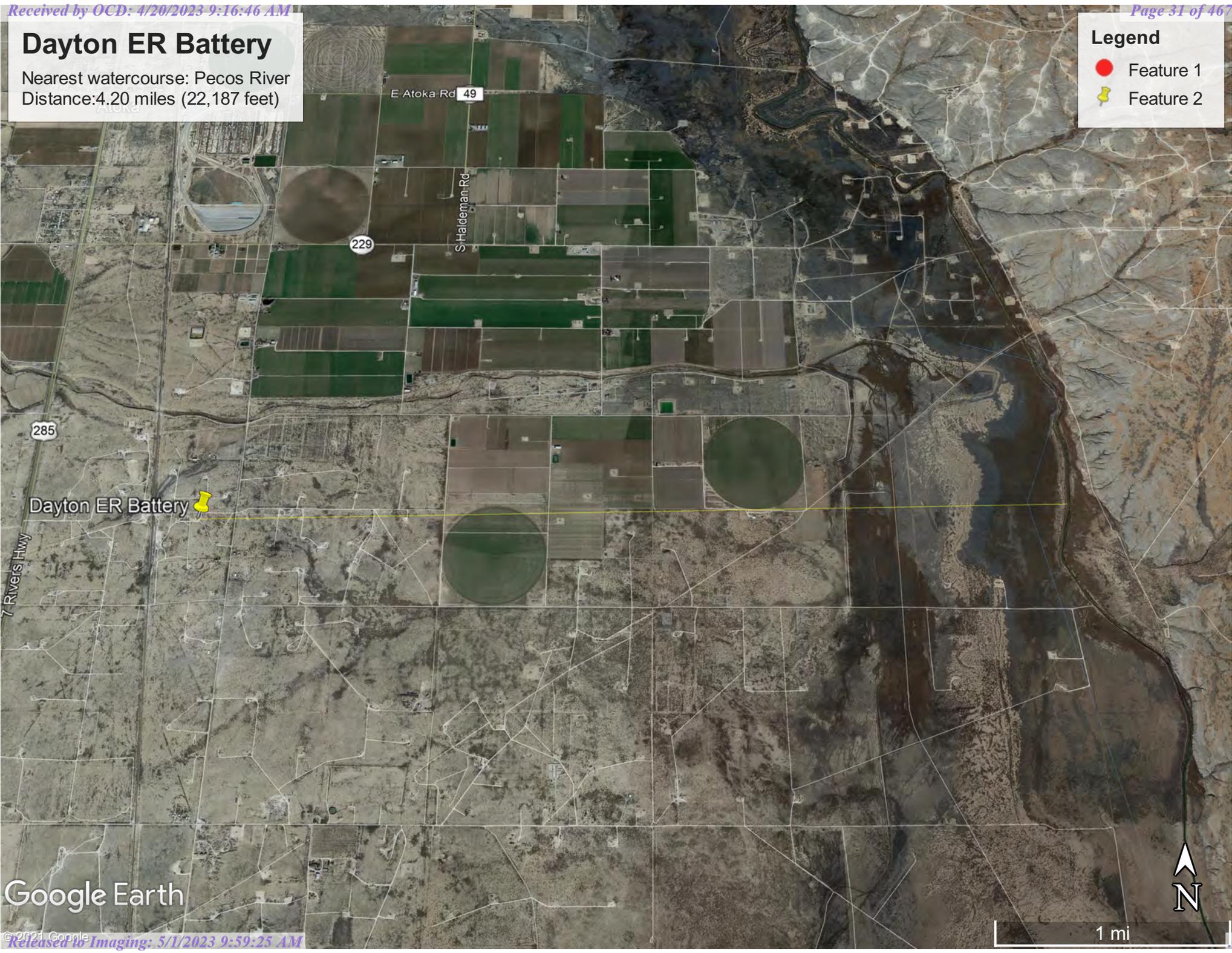
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Dayton ER Battery

Nearest watercourse: Pecos River
Distance: 4.20 miles (22,187 feet)

Legend

- Feature 1
- 📌 Feature 2



Google Earth



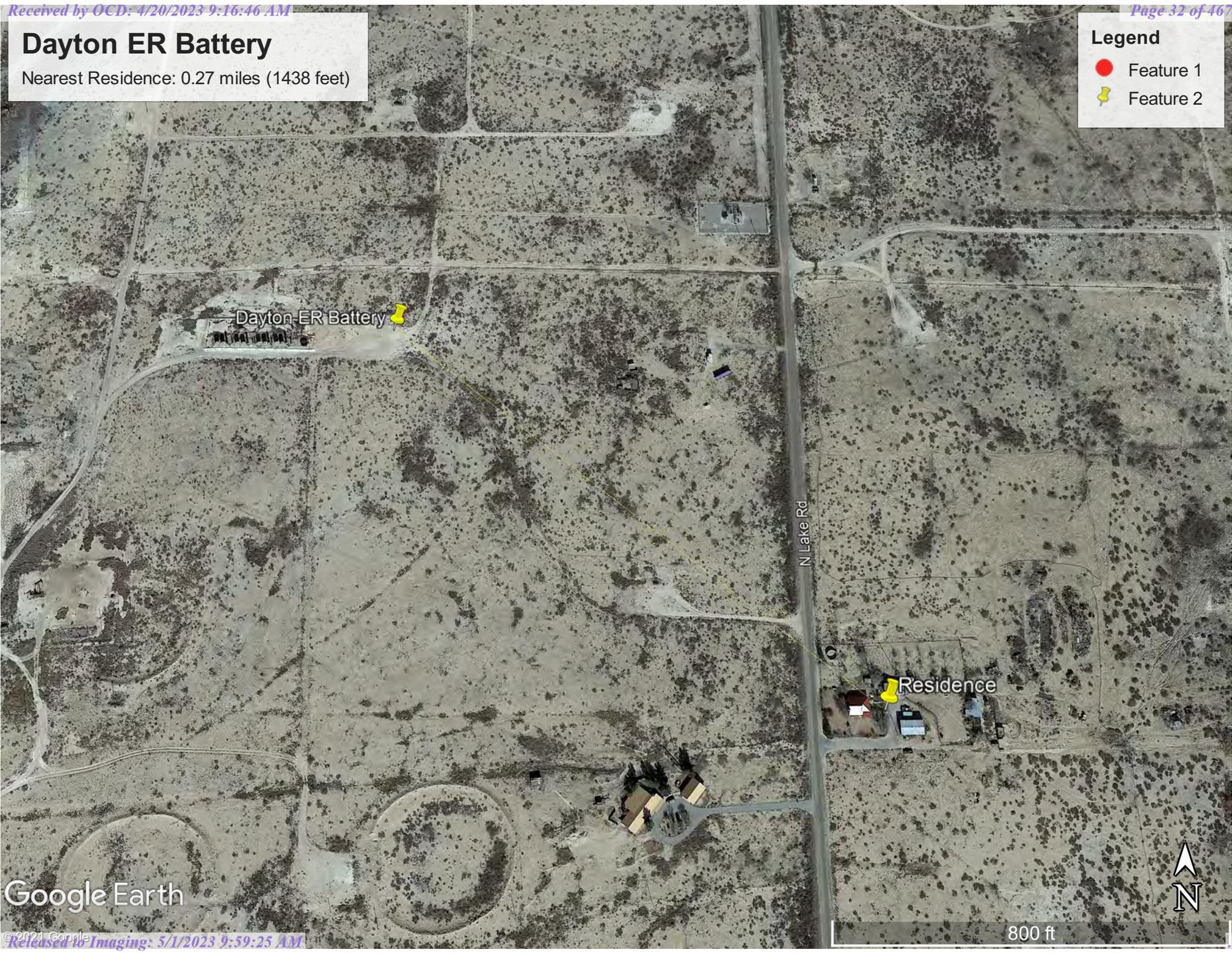
1 mi

Dayton ER Battery

Nearest Residence: 0.27 miles (1438 feet)

Legend

- Feature 1
- 📌 Feature 2



Google Earth

N Lake Rd

Dayton ER Battery

Residence



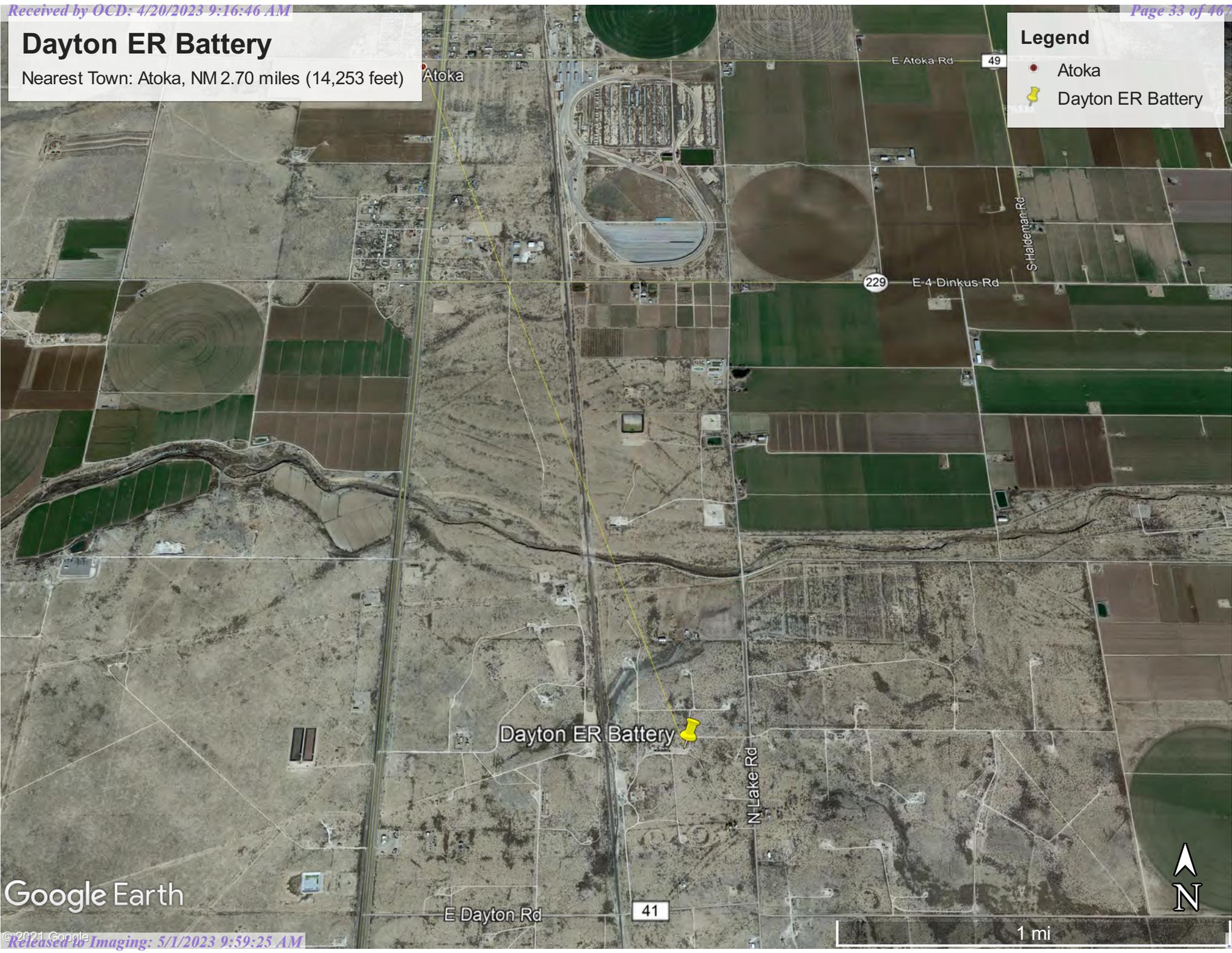
800 ft

Dayton ER Battery

Nearest Town: Atoka, NM 2.70 miles (14,253 feet)

Legend

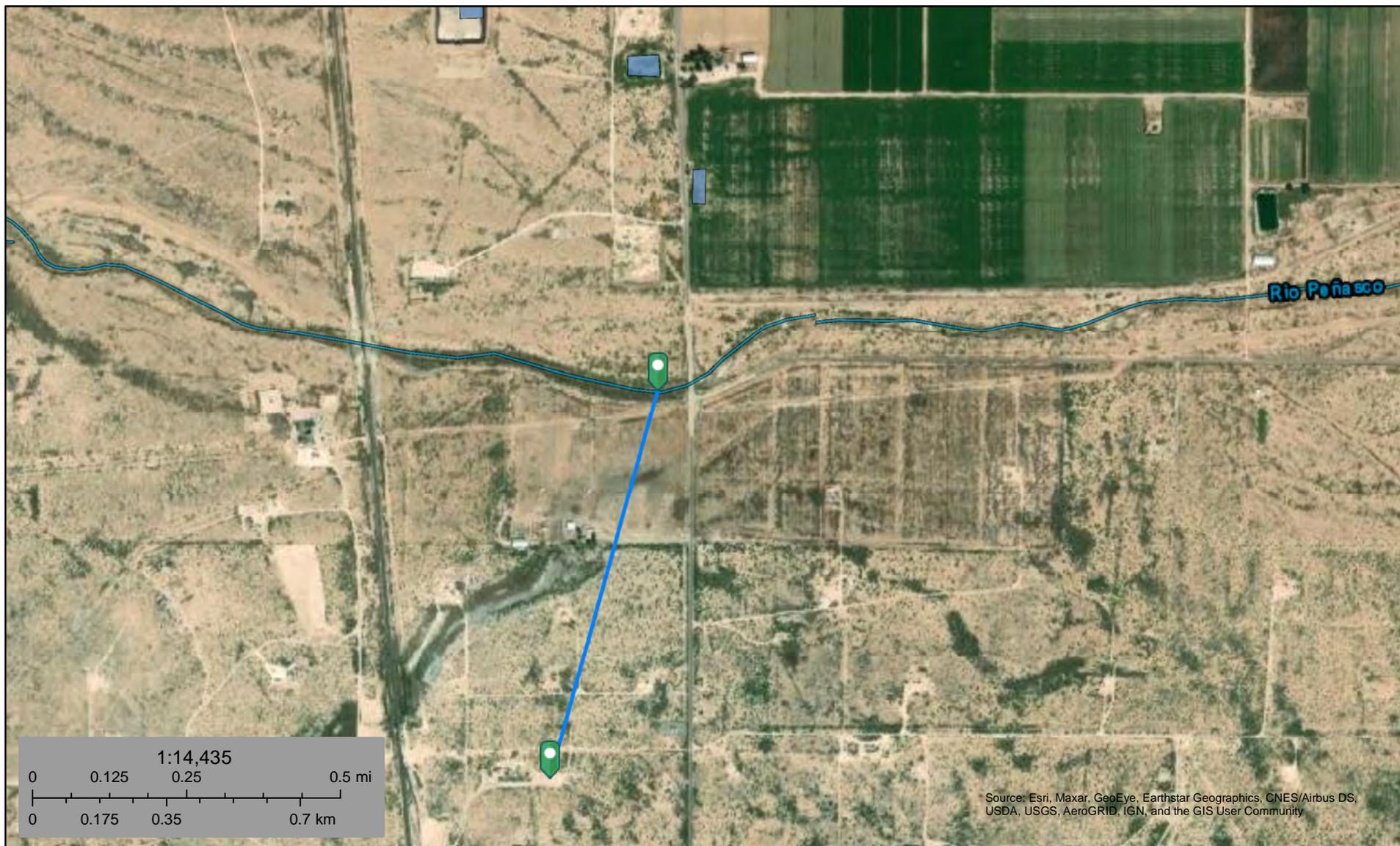
- Atoka
- 📍 Dayton ER Battery



Google Earth



Dayton ER Battery



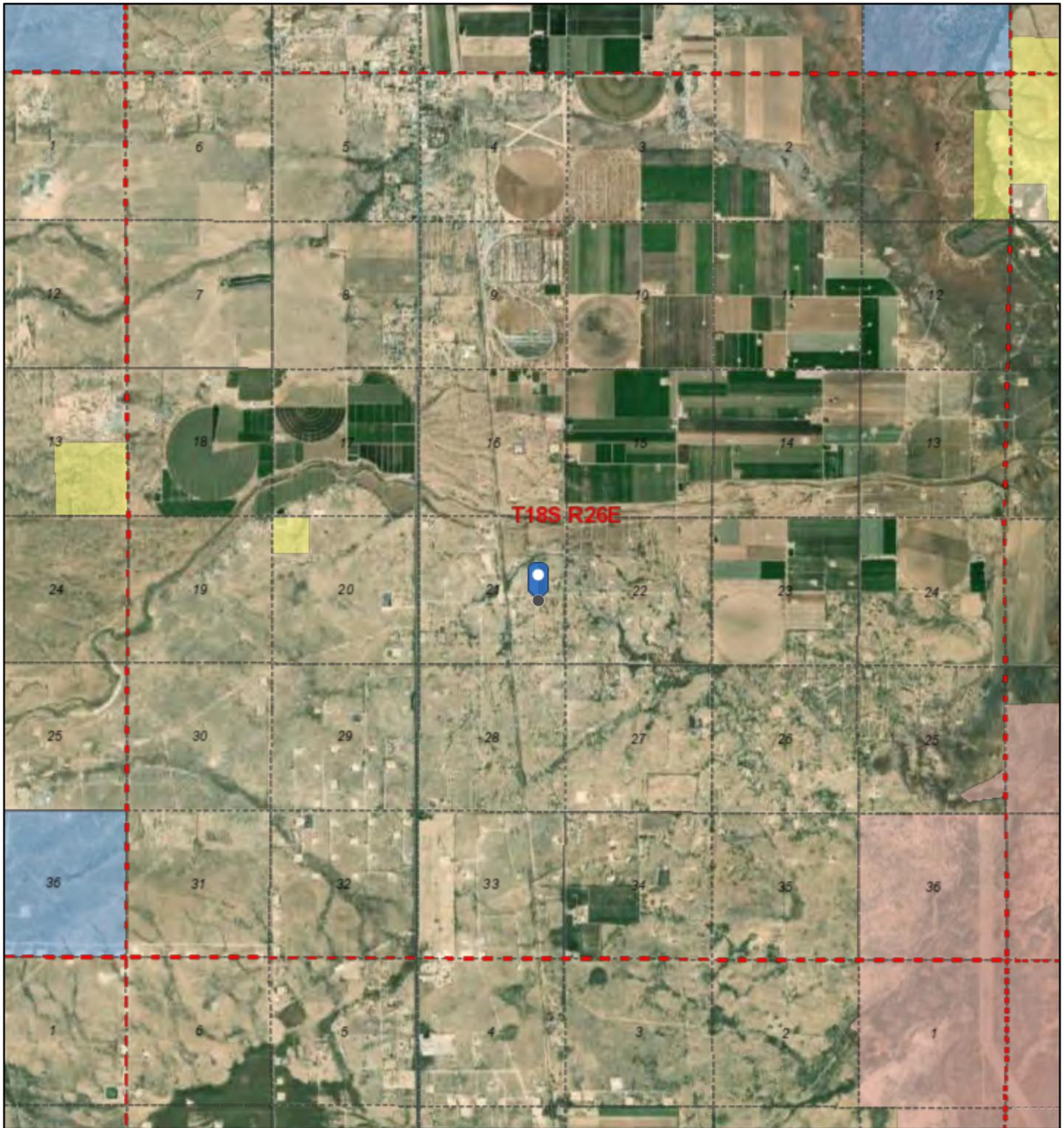
September 2, 2021

Wetlands

- Estuarine and Marine Deepwater
- 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.

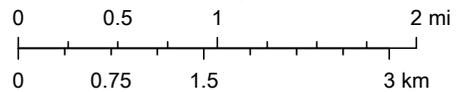
Dayton ER Battery



9/2/2021, 1:24:33 PM

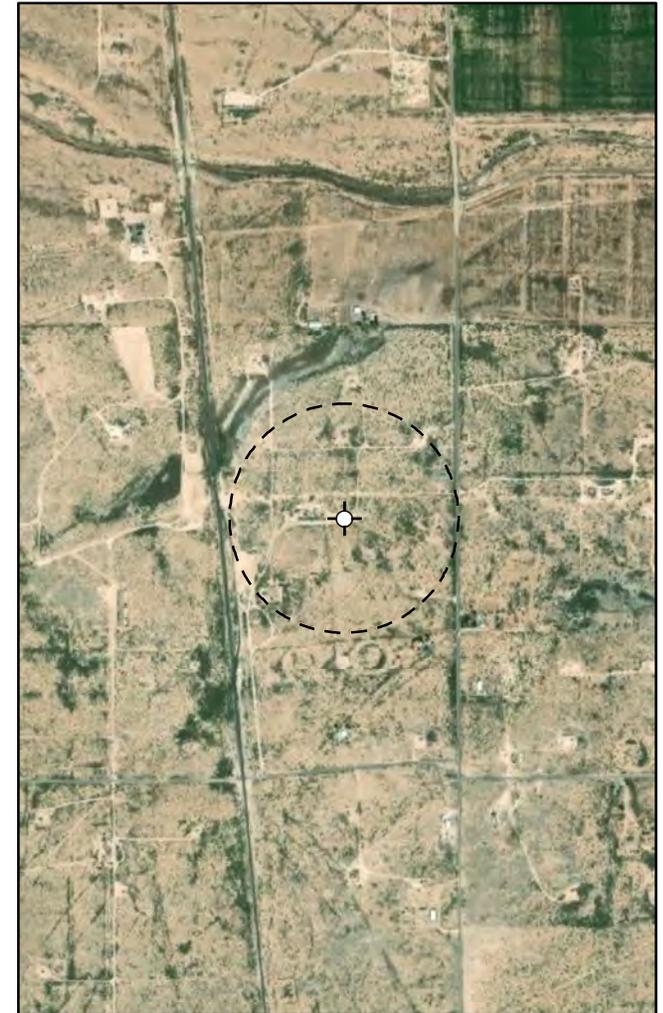
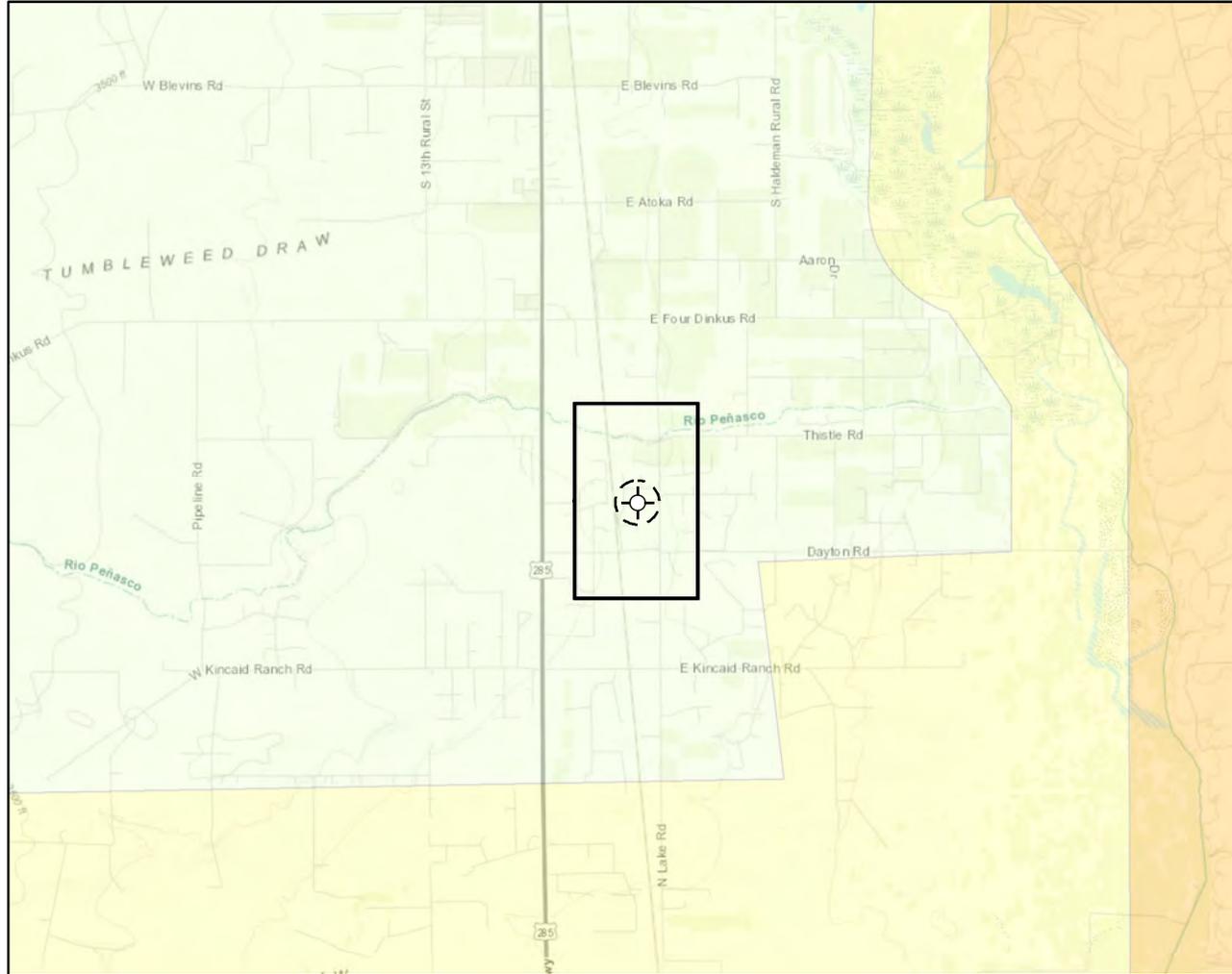
1:72,224

- Township / Range
- Sections
- Land Ownership
- Bureau of Land Management
- Bureau of Reclamation
- Department of Agriculture
- Department of Defense
- Department of Energy
- National Park Service
- Private Land
- State Game and Fish
- State Land
- State Parks
- Tribal



Esri, HERE, Garmin, U.S. Bureau of Land Management - New Mexico State Office, Earthstar Geographics

EMNRD MMD GIS Coordinator



Karst Potential

- Critical
 - High
 - Medium
 - Low
- + Site
+ Site Buffer (1,000 ft.)

Overview Map

0 0.25 0.5 1 1.5 mi

Detail Map

0 600 1,200 ft.



Map Center:
Lat/Long: 32.732593, -104.381879

NAD 1983 UTM Zone 13N
Date: Sep 07/21



**Dayton ER Battery
Karst Potential**

FIGURE:

X



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

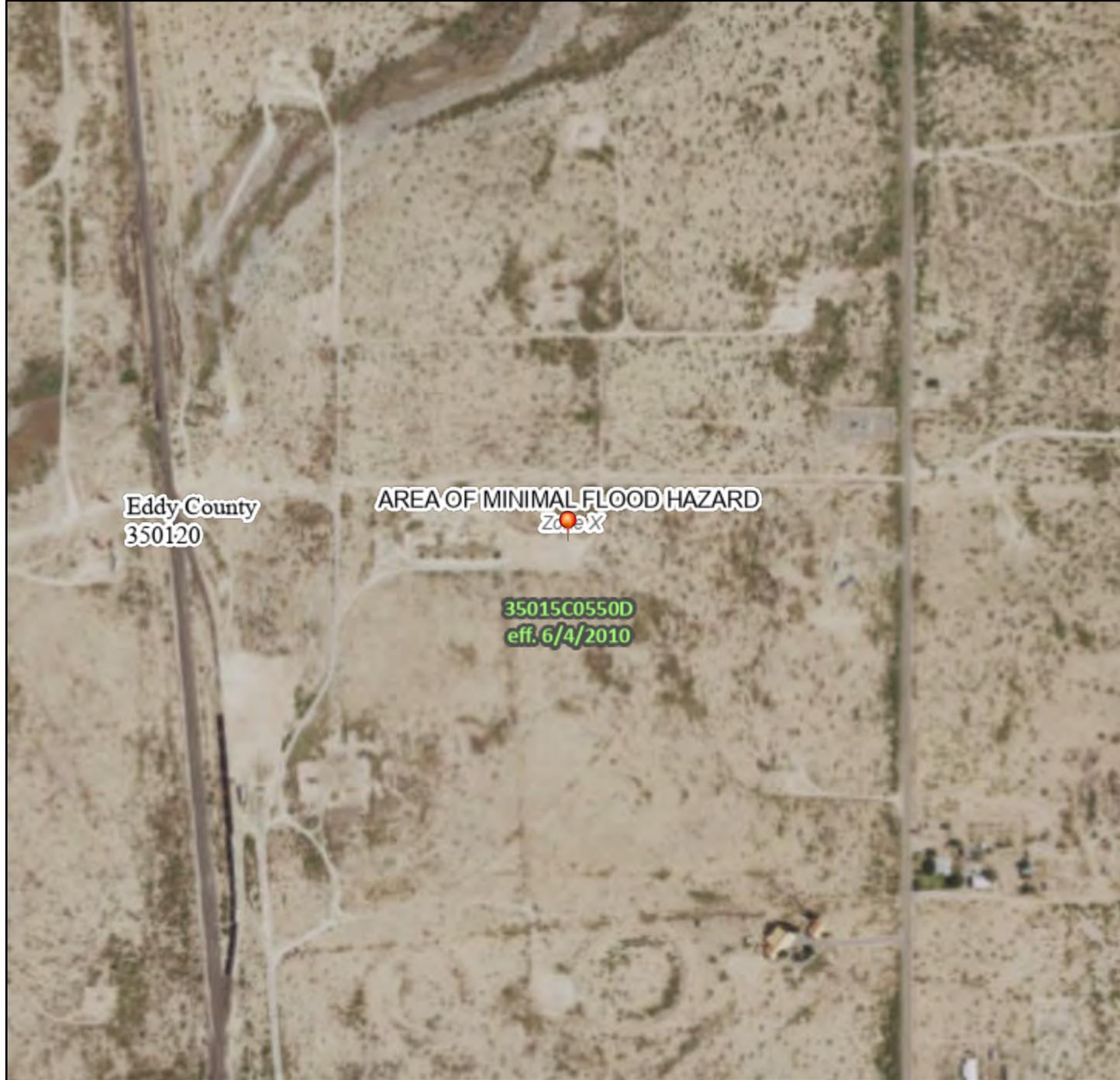
Note: Inset Map, ESRI 20XX; Overview Map: ESRI World Topographic; United States Department of the Interior, Bureau of Land Management. (2018). Karst Potential.

VERSATILITY. EXPERTISE.

National Flood Hazard Layer FIRMette



104°23'12"W 32°44'12"N

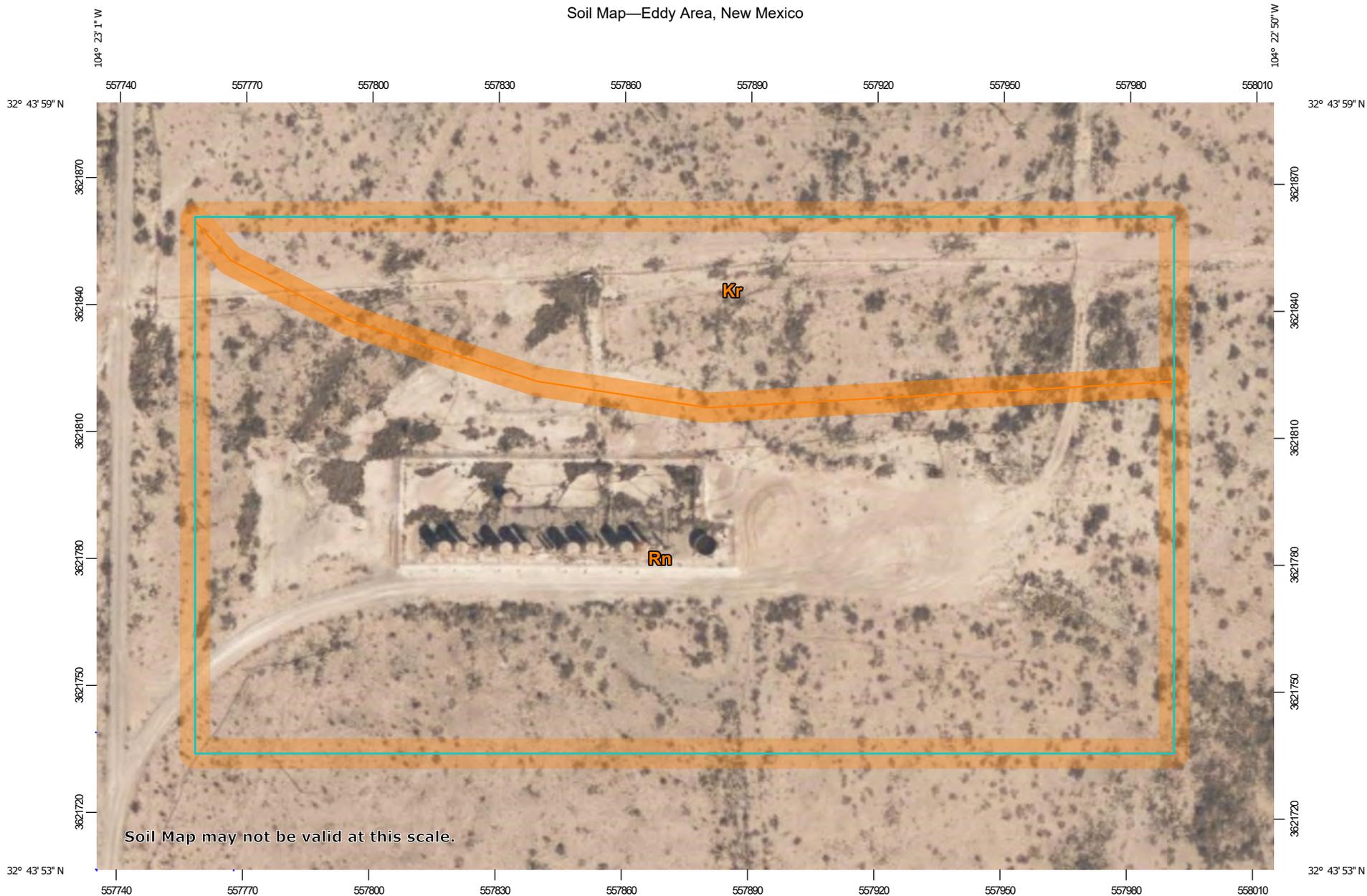


Legend

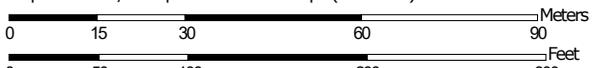
SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- SPECIAL FLOOD HAZARD AREAS**
 - Without Base Flood Elevation (BFE) Zone A, V, A99
 - With BFE or Depth Zone AE, AO, AH, VE, AR
 - Regulatory Floodway
 - OTHER AREAS OF FLOOD HAZARD**
 - 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage 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
 - Area with Flood Risk due to Levee Zone D
 - OTHER AREAS**
 - NO SCREEN Area of Minimal Flood Hazard Zone X
 - Effective LOMRs
 - Area of Undetermined Flood Hazard Zone D
 - GENERAL STRUCTURES**
 - Channel, Culvert, or Storm Sewer
 - Levee, Dike, or Floodwall
 - OTHER FEATURES**
 - Cross Sections with 1% Annual Chance Water Surface Elevation
 - Coastal Transect
 - Base Flood Elevation Line (BFE)
 - Limit of Study
 - Jurisdiction Boundary
 - Coastal Transect Baseline
 - Profile Baseline
 - Hydrographic Feature
 - MAP PANELS**
 - Digital Data Available
 - No Digital Data Available
 - Unmapped
- The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

Soil Map—Eddy Area, New Mexico



Map Scale: 1:1,280 if printed on A landscape (11" x 8.5") sheet.



Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 13N WGS84



Soil Map—Eddy Area, New Mexico

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features

Water Features

 Streams and Canals

Transportation

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

Background

 Aerial Photography

MAP INFORMATION

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

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

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

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

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

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

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

Soil Survey Area: Eddy Area, New Mexico
 Survey Area Data: Version 16, Jun 8, 2020

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

Date(s) aerial images were photographed: Feb 27, 2020—Feb 28, 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.

Soil Map—Eddy Area, New Mexico

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Kr	Karro loam, 0 to 1 percent slopes	2.1	28.2%
Rn	Reeves loam, 1 to 3 percent slopes	5.3	71.8%
Totals for Area of Interest		7.3	100.0%

Map Unit Description: Karro loam, 0 to 1 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

Kr—Karro loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w4v

Elevation: 2,500 to 5,300 feet

Mean annual precipitation: 10 to 15 inches

Mean annual air temperature: 57 to 64 degrees F

Frost-free period: 200 to 230 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Karro and similar soils: 99 percent

Minor components: 1 percent

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

Description of Karro

Setting

Landform: Alluvial fans, plains

Landform position (three-dimensional): Riser, rise, talf

Down-slope shape: Linear, convex

Across-slope shape: Linear

Parent material: Mixed alluvium

Typical profile

H1 - 0 to 10 inches: loam

H2 - 10 to 90 inches: clay loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high (0.20 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 60 percent

Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: High (about 10.5 inches)

Interpretive groups

Land capability classification (irrigated): 2s

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: C

Ecological site: R042XC030NM - Limy

Map Unit Description: Karro loam, 0 to 1 percent slopes---Eddy Area, New Mexico

Hydric soil rating: No

Minor Components

Reeves

Percent of map unit: 1 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 16, Jun 8, 2020

Map Unit Description: Reeves loam, 1 to 3 percent slopes---Eddy Area, New Mexico

Eddy Area, New Mexico

Rn—Reeves loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5q

Elevation: 1,250 to 4,800 feet

Mean annual precipitation: 10 to 25 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 120 to 225 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Reeves and similar soils: 98 percent

Minor components: 2 percent

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

Description of Reeves

Setting

Landform: Hills, plains, ridges

Landform position (two-dimensional): Backslope, footslope, shoulder, toeslope

Landform position (three-dimensional): Crest, nose slope, side slope, head slope

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Typical profile

Ap - 0 to 8 inches: loam

H2 - 8 to 32 inches: clay loam

H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 25 percent

Gypsum, maximum content: 80 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Map Unit Description: Reeves loam, 1 to 3 percent slopes---Eddy Area, New Mexico

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R042XC007NM - Loamy
Hydric soil rating: No

Minor Components

Karro

Percent of map unit: 1 percent
Ecological site: R042XC030NM - Limy
Hydric soil rating: No

Cottonwood

Percent of map unit: 1 percent
Ecological site: R042XC006NM - Gyp Upland
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 16, Jun 8, 2020

Ecological Reference Worksheet

Author(s) / participant(s): John Tunberg,

Contact for lead author : 505-761-4488

Reference site used? Yes/No

No

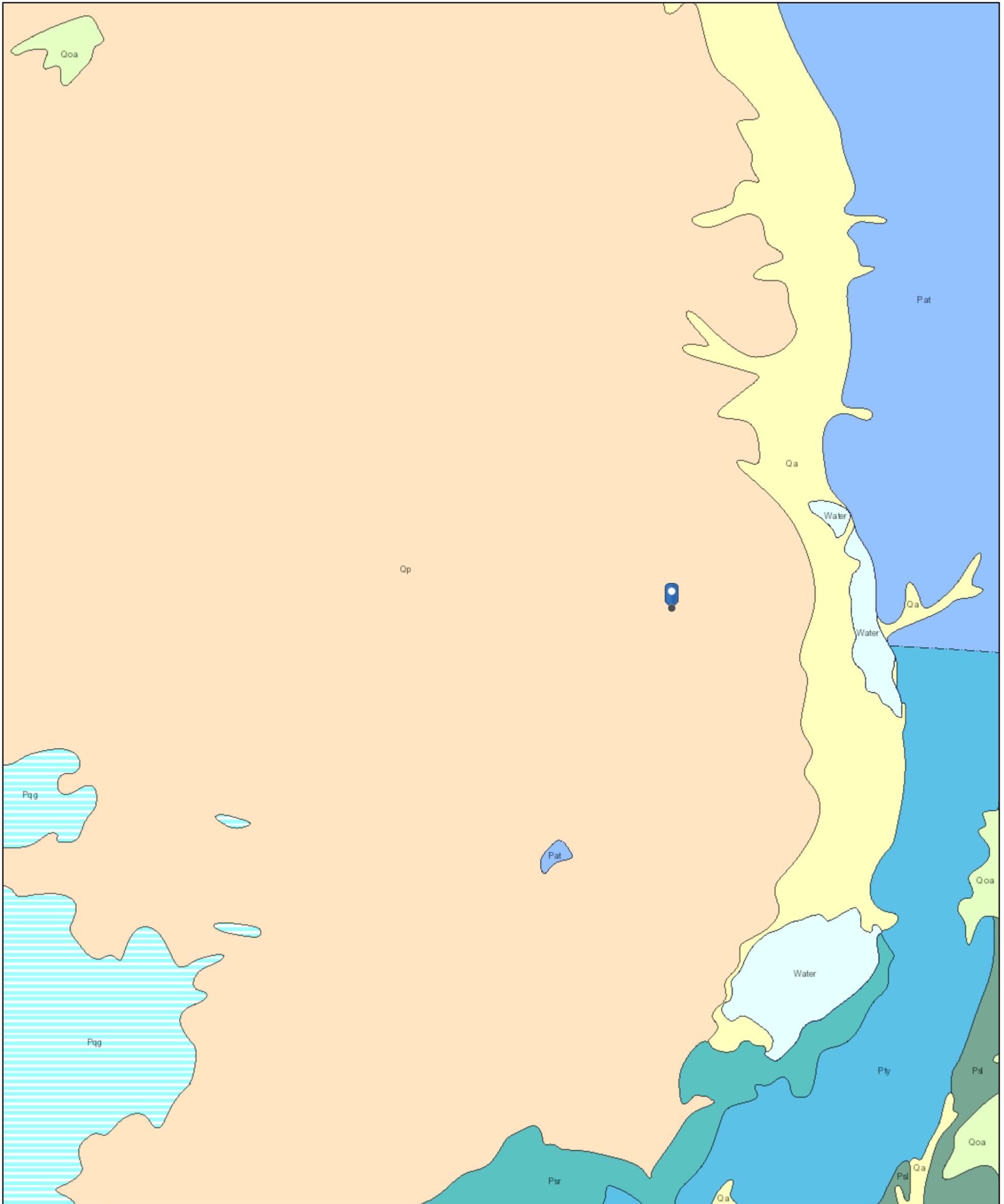
Date: 2/12/2010 **MLRA:** 42.3 **Ecological Site:** Loamy This *must* be verified based on soils and climate (see Ecological Site Description). Current plant community *cannot* be used to identify the ecological site.

Indicators: For each indicator, describe the potential for the site. Where possible, (1) use numbers, (2) include expected range of values for above and below average years for **each** community within the reference state, when appropriate & (3) site data. Continue description on separate sheet.

1. Number and extent of rills	There should not be any rills. After wildfires, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances rills may double in number on steeper slopes at the margins of this site after high-intensity summer thunderstorms. Any rills formed should not be long lived or interconnected and should heal rapidly.
2. Presence of water flow patterns:	There can be evidence of sheet flow. There can be a few flow patterns that should be short and discontinuous. There can be some sheet flow. Water flow patterns should only be present following intense storm events on upper slope limits at the margins of this site. Numerous obstructions alter flow paths. Flow pattern length and numbers may double after wildfires, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances.
3. Number and height of erosional pedestals or terracettes:	Pedestals should be rare. Terracettes can occur and should be discontinuous. There can be a few pedestals that should be less than 1 inch high. Terracettes can be common and should be discontinuous. If present plant or rock pedestals and terracettes are almost always in flow patterns. Wind caused pedestals are rare and only would be on the site following after wildfires, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances. These would show signs of healing within 1 year after event.
4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground) :	Bare ground can make up to 50% of the ground cover on this site according to the ESD. Bare patch size should be small.
5. Number of gullies and erosion associated with gullies:	Gullies and erosion associated with gullies should be rare are infrequent. Typically, gullies if present will only follow the micro topography. Natural drainages with little to no active cutting are common on this site. There should not be any accelerated erosion. After high-intensity summer thunderstorms or after wildfire, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances then gully formation would be accelerated for a year or two. Evidence of healing within 1 year of event and continuing after that.
6. Extent of wind scoured, blowouts and/or depositional area	There should not be any wind scoured, blowouts and/or depositional areas. However there can be potential for depositional areas. Wind erosion is minimal when the site is in a well vegetated condition. Significant wind erosion would only be present following high-intensity summer thunderstorms, after wildfire, or abnormally high human or herbivore impacts or extended drought or combinations of these disturbances. After rain events, exposed soil surfaces form physical crusts that tend to reduce wind erosion. Deposition from off site sources can be common on this site and is in fact a primary soil forming process. This site is susceptible to wind erosion when vegetation is removed or significantly decreased.
7. Amount of litter movement (describe size and distance expected to travel) :	Litter should be small (less than "1 in diameter) and its movement should be minimal. This site has adequate vegetation to stop litter movement after short distances. Most of the litter movement on this site will be litter that has been transported onto the site from adjacent sites. Litter produced on this site stays on the site and only travels short distances.
8. Soil surface (top few mm) resistance to erosion (stability) values are averages - most sites will show a range of values for both plant canopy and interspaces, if different) :	This site can be susceptible to alluvial erosion. Stability values are estimated to be 1-2 in interspaces and 3-5 at bases of vegetation. This would
9. Soil surface structures and SOM content (include type and strength of structure, and A-horizon color and thickness for both plant canopy and interspaces, if different) :	The SOM content should be less than 1%. A--0 to 6 inches; grayish brown (10YR 5/2) loam, dark grayish brown (10YR 4/2) moist; weak fine subangular blocky structure; hard, friable, slightly sticky; surface 1/2 to 2 inches has weak thin to medium platy structure; common very fine and fine pores; common very fine, fine and medium roots; strongly calcareous; slightly alkaline (pH 7.6); clear smooth boundary. (4 to 8 inches thick)
10. Effect of plant community composition (relative proportion of different functional groups) & spatial distribution on infiltration & runoff:	Overall, infiltration rates should be slow for this site but can be higher around bases of grasses than in interspaces and around bases of shrubs. The soils of this site are deep to moderately deep. The moderately deep soils have either a petrocalcic, petrogypsic or gypsum horizon between 30 and 40 inches. Surface textures are loam, silt loam, very fine sandy loam, or clay loam. Substratum textures are loam, silty clay loam, clay loam, or silt loams. Subsoil textures are silt loam, clay loam silty clay loam, gravelly loam, gravelly clay loam or very gravelly loam. Permeability is moderate to slow and the available water holding capacity is high to moderate.

<p>11. Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction):</p> <p>There should not be any compaction layers on this site. There are soil profile features in the top 9 inches of the soil profile that would be mistaken for a management induced soil compaction layer. Management induced compaction layers will be more difficult to penetrate than clay lenses.</p>
<p>12. Functional/Structural Groups (list in order of descending dominance by above-ground weight using symbols: indicate much greater than (>>), greater than (>), and equal to (=) :</p> <p>black grama >> tobosa > C 4 bunch grasses (dropseeds) > C4 midgrasses (threeawns) >= soap tree yucca, ephedra, fourwing saltbush >= forbs (croton, desert marigold, globemallow, > broom snakeweed, prickly pear, = other forbs.</p>
<p>13. Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence) :</p> <p>Black grama and bunchgrasses can show decadence in centers of plants.</p>
<p>14. Average percent litter cover (_____ %) and depth (_____ inches).</p> <p>Average 15% cover and 0.75 inch deep. (As per ESD)</p>
<p>15. Expected annual production (this is <u>TOTAL</u> above-ground production, not just forage production):</p> <p>(Low Production 650 lbs./ac.) (Average RV Production 925 lbs./ac.) (High Production 1200 lbs./ac.) After wildfires, high herbivore impacts, extended drought, or combinations of these disturbances, can cause production to be significantly reduced (100-200 lbs per ac. the first growing season following a wildfire) and recover slowly under below average precipitation regimes.</p>
<p>16. Potential invasive (including noxious) species (native and non-native). List species which characterize degraded states and which, after a threshold is crossed, "can, and often do , continue to increase regardless of the management of the site and may eventually dominate</p> <p>Tarbush, creosote and mesquite can be invaders to this site. Invasive plants should not occur in reference plant community. However, lovegrass, Russian thistle, kochia, and other nonnative annuals may initially invade following extended disturbance. Mesquite and tarbush and creosote and lovegrass are the greatest threat to dominate this site in the long term after disturbance (primarily following wildfire exclusion but also includes high human or herbivore impacts and extended drought). Mesquite and tarbush and creosote and lovegrass are most likely to retain dominance if allowed to alter natural fire regime (this alteration may require poor land management combined with years of wet winter-spring; dry summer-fall conditions). Any of these invaded communities represent a departure from the reference state.</p>
<p>17. Perennial plant reproductive capability :</p> <p>Black grama reproduces by seed sporadically and reproduction by tiller and stolon can be common. The C4 midgrasses should have high reproductive potential and rapidly recover from drought in the absence of additional stresses (grazing).</p>

Dayton ER Battery

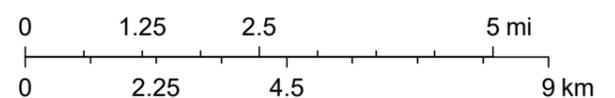


6/28/2022, 10:17:43 AM

Lithologic Units

- Playa—Alluvium and evaporite deposits (Holocene)
- Water—Perennial standing water
- Qa—Alluvium (Holocene to upper Pleistocene)

1:144,448



Esri, NASA, NGA, USGS, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census

ATTACHMENT 5



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>10/18/2021</u>
Site Location Name:	<u>Dayton ER Battery</u>	Report Run Date:	<u>10/18/2021 10:48 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u>30-015-21629</u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>10/18/2021 3:56 PM</u>
Departed Site	<u>10/18/2021 4:28 PM</u>

Field Notes

- 15:57** Complete white line of area to be sampled
- 16:00** Site looks old and could contain multiple non reportable historical releases within the containment area. White line of area will be entire location to cover all areas of potential sampling
- 16:16** Some slight discoloration to soils around edges of containment. East side of containment does slope downwards
- 16:20** East area of soil is very loose and shows signs of contamination.

Next Steps & Recommendations

- 1** Delineation with geoprobe
- 2** Potential em survey
- 3** Remediation work plan



Daily Site Visit Report

Site Photos

Viewing Direction: West



Descriptive Photo - 9
Viewing Direction: West
Date: 10/18/2021 4:17:54 PM
Created: 10/18/2021 4:17:54 PM
Lat:32.732836, Long: -104.388129

East side of battery

Viewing Direction: Southeast



Descriptive Photo - 10
Viewing Direction: Southeast
Date: 10/18/2021 4:22:48 PM
Created: 10/18/2021 4:22:48 PM
Lat:32.732836, Long: -104.388129

White line area

Viewing Direction: Northwest



Descriptive Photo - 11
Viewing Direction: Northwest
Date: 10/18/2021 4:18:07 PM
Created: 10/18/2021 4:18:07 PM
Lat:32.732836, Long: -104.388129

White line area

Viewing Direction: West



Descriptive Photo - 12
Viewing Direction: West
Date: 10/18/2021 4:28:04 PM
Created: 10/18/2021 4:28:04 PM
Lat:32.732836, Long: -104.388129

White line area



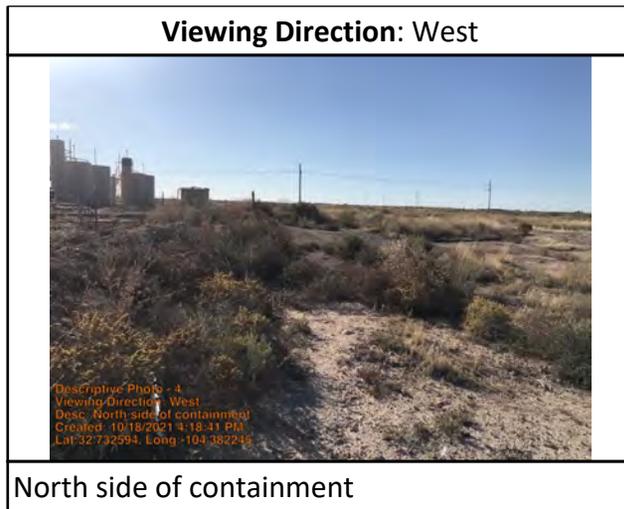
Daily Site Visit Report



Downward slope on east side



North east corner of pad



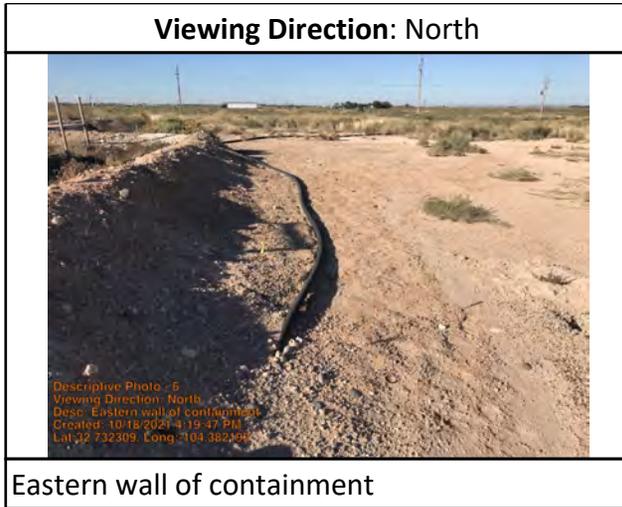
North side of containment



Containment area



Daily Site Visit Report



Eastern wall of containment



Containment area within white line



West side of battery



Containment area

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Monica Peppin

A handwritten signature in black ink, appearing to be 'MP', written over a horizontal line.

Signature:

Signature



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>5/26/2022</u>
Site Location Name:	<u>Dayton ER Battery</u>	Report Run Date:	<u>5/26/2022 9:35 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>5/26/2022 8:45 AM</u>
Departed Site	<u>5/26/2022 2:00 PM</u>

Field Notes

- 10:10** Collected 8 5-point composite samples from the excavation area for characterization
- 12:17** Ran all samples for chlorides titrations, all clean.
- 13:53** All samples clean on TPH except for #6

Next Steps & Recommendations

- 1** Excavate an additional foot around 1, 2, and 6 to reach levels.



Daily Site Visit Report

Site Photos

Viewing Direction: Southwest



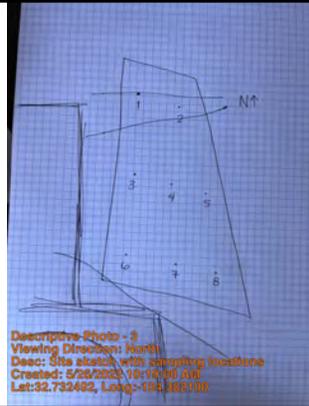
Excavation

Viewing Direction: West



Southwest corner

Viewing Direction: North



Site sketch with sampling locations

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Sally Carttar

Signature:

Signature

A handwritten signature in black ink, appearing to read 'Sally Carttar', written over a horizontal line.



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>12/13/2022</u>
Site Location Name:	<u></u>	Report Run Date:	<u>12/14/2022 12:57 AM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>12/13/2022 7:38 AM</u>
Departed Site	<u>12/13/2022 4:07 PM</u>

Field Notes

- 15:19** Arrived on site, held tailgate safety meeting
- 15:20** Gathered 6 wall samples and 1 base sample , they all tested high in chlorides

Next Steps & Recommendations

- 1** Continuing excavation base down to 4'. Take the dirty walls and bases out in additional 1' increments



Daily Site Visit Report

Site Photos

Viewing Direction: Northwest



Excavation progress

Viewing Direction: West



Viewing Direction: Southwest



Viewing Direction: South





Daily Site Visit Report

Viewing Direction: Southeast



Descriptive Photo - 1
Viewing Direction: Southeast
Desc:
Created: 12/13/2022 3:24:48 PM
Lat: 32.732452, Long: -104.382154

Viewing Direction: East



Descriptive Photo - 1
Viewing Direction: East
Desc:
Created: 12/13/2022 3:25:03 PM
Lat: 32.732452, Long: -104.382154

Viewing Direction: Northeast



Descriptive Photo - 1
Viewing Direction: Northeast
Desc:
Created: 12/13/2022 3:25:28 PM
Lat: 32.732452, Long: -104.382154

Viewing Direction: North



Descriptive Photo - 1
Viewing Direction: North
Desc:
Created: 12/13/2022 3:25:45 PM
Lat: 32.732452, Long: -104.382154

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Zachery Englebert

Signature:

A handwritten signature in black ink, appearing to read 'Zachery Englebert', written over a horizontal line. The word 'Signature' is faintly visible below the line.



Daily Site Visit Report

Client:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>3/1/2023</u>
Site Location Name:	<u>Dayton ER Battery</u>	Report Run Date:	<u>3/3/2023 9:08 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u>30-015-21629</u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>3/1/2023 11:00 AM</u>
Departed Site	<u>3/1/2023 12:30 PM</u>

Field Notes

- 11:56** Arrived on site to collect BES23-54 at 4.5' as it was above criteria at 4'
- 11:56** Below criteria on all field screening.
Taking pictures of final excavation.

Next Steps & Recommendations

- 1 Wait for results and take this site to closure.



Daily Site Visit Report

Site Photos

Viewing Direction: Northwest



Final excavation

Viewing Direction: Northeast



Final excavation

Viewing Direction: Northwest



Final excavation

Viewing Direction: Northeast



Final excavation



Daily Site Visit Report





Daily Site Visit Report





Daily Site Visit Report



Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

A handwritten signature in black ink, appearing to be 'CD', written over a horizontal line.

Signature

ATTACHMENT 6

Monica Peppin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, May 26, 2022 11:15 AM
To: Robert.Hamlet@state.nm.us; Bratcher, Mike, EMNRD; Jennifer.Nobui@state.nm.us; Harimon, Jocelyn, EMNRD
Cc: Artesia S&E Spill Remediation; Artesia Regulatory
Subject: Dayton ER Battery (2RP-284) Sampling Notification

Good Morning,

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

Dayton ER Battery
I-21-18S-26E; Eddy County, NM
2RP-284

Sampling will begin at 8:00 a.m. on Tuesday, May 31, 2022 and will be continuous through Friday, June 3, 2022.

Thank you,

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



Artesia Division

Monica Peppin

From: Chase Settle <Chase_Settle@eogresources.com>
Sent: Thursday, June 16, 2022 11:50 AM
To: Monica Peppin
Cc: Michael Moffitt
Subject: FW: Dayton ER Battery (2RP-284) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, June 16, 2022 10:44 AM
To: Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Dayton ER Battery (2RP-284) Sampling Notification

Good Morning,

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

Dayton ER Battery
I-21-18S-26E; Eddy County, NM
2RP-284

Sampling will begin at 8:00 a.m. on Thursday, June 23, 2022.

Thank you,

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



Artesia Division

From: [Chase Settle](#)
To: [Michael Moffitt](#)
Subject: FW: Dayton ER Battery (2RP-284) Sampling Notification
Date: September 1, 2022 9:39:03 AM
Attachments: [image001.png](#)

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, September 1, 2022 9:30 AM
To: Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Dayton ER Battery (2RP-284) Sampling Notification

Good Morning,

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

Dayton ER Battery
I-21-18S-26E
Eddy County, NM
2RP-284

Sampling will begin at 8:00 a.m. on Thursday, September 8, 2022 and continue through Friday, September 9, 2022.

Thank you,

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



Artesia Division

Monica Peppin

From: Chase Settle <Chase_Settle@eogresources.com>
Sent: September 15, 2022 8:30 AM
To: Michael Moffitt
Cc: Monica Peppin
Subject: FW: Dayton ER Battery (2RP-284) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, September 15, 2022 8:06 AM
To: Jennifer Nobui <Jennifer.Nobui@state.nm.us>; Jocelyn Harimon <Jocelyn.Harimon@state.nm.us>; Mike Bratcher <mike.bratcher@state.nm.us>; Robert Hamlet <Robert.Hamlet@state.nm.us>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Dayton ER Battery (2RP-284) Sampling Notification

Good Morning,

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

Dayton ER Battery
I-21-18S-26E
Eddy County, NM
2RP-284

Sampling will begin at 8:00 a.m. on Monday, September 19, 2022 and continue through Friday, September 23, 2022.

Thank you,

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



Monica Peppin

From: Chase Settle <Chase_Settle@eogresources.com>
Sent: September 22, 2022 8:11 AM
To: Michael Moffitt
Cc: Monica Peppin
Subject: FW: Dayton ER Battery (2RP-284) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, September 22, 2022 7:54 AM
To: Robert.Hamlet@emnrd.nm.gov; Mike.Bratcher@emnrd.nm.gov; Jennifer.Nobui@emnrd.nm.gov; Jocelyn.Harimon@emnrd.nm.gov
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Dayton ER Battery (2RP-284) Sampling Notification

Good Morning,

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

Dayton ER Battery
I-21-18S-26E
Eddy County, NM
2RP-284

Sampling will begin at 8:00 a.m. on Monday, September 26, 2022 and continue through Friday, September 30, 2022.

Thank you,

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



Artesia Division

From: [Tina Huerta](#)
To: ocd.enviro@emnrd.nm.gov
Cc: [Artesia S&E Spill Remediation](#); [Artesia Regulatory](#)
Subject: Dayton ER Battery (2RP-284) Sampling Notification
Date: December 12, 2022 10:45:20 AM
Attachments: [image001.png](#)

Good Morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Dayton ER Battery
I-21-18S-26E
Eddy County, NM
2RP-284

Sampling will begin at 10:45 a.m. on Wednesday, December 14, 2022 and continue through Saturday, December 17, 2022.

Thank you,

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



Artesia Division

From: [Tina Huerta](#)
To: ocd.enviro@emnrd.nm.gov
Cc: [Artesia S&E Spill Remediation](#); [Artesia Regulatory](#)
Subject: Dayton ER Battery (2RP-284) Sampling Notification
Date: December 15, 2022 8:28:44 AM
Attachments: [image001.png](#)

Good Morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Dayton ER Battery
I-21-18S-26E
Eddy County, NM
2RP-284

Sampling will begin at 8:00 a.m. on Monday, December 19, 2022 and continue through Friday, December 23, 2022.

Thank you,

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



Artesia Division

From: [Amber Griffin](#)
To: [Chance Dixon](#)
Subject: FW: [EXTERNAL] Dayton ER Battery (2RP-824) Sampling Notification
Date: January 17, 2023 10:55:58 AM
Attachments: [image002.jpg](#)
[image003.png](#)

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, December 22, 2022 8:48 AM
To: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: FW: [EXTERNAL] Dayton ER Battery (2RP-824) Sampling Notification

FYI

S&E Please note I changed the incident number in the subject.

Thank you.

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, December 22, 2022 8:44 AM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Dayton ER Battery (2RP-284) Sampling Notification

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning Tina,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Have a happy holiday,
Jocelyn Harimon

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

<http://www.emnrd.nm.gov>



From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, December 22, 2022 5:20 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: [EXTERNAL] Dayton ER Battery (2RP-284) Sampling Notification

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

Good Morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Dayton ER Battery
I-21-18S-26E
Eddy County, NM
2RP-284

Sampling will begin at 8:00 a.m. on Tuesday, December 27, 2022 and continue through Saturday, December 31, 2022.

Thank you,

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



Artesia Division

From: [Chase Settle](#)
To: [Chance Dixon](#); [Michael Moffitt](#)
Subject: FW: Dayton ER Battery (NMLB1122253079/2RP-824) Sampling Notification
Date: December 30, 2022 12:02:13 PM
Attachments: [image001.png](#)

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, December 29, 2022 7:18 AM
To: ocd.enviro@emnrd.nm.gov
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: Dayton ER Battery (NMLB1122253079/2RP-824) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Dayton ER Battery
I-21-18S-26E
Eddy County, NM
NMLB1122253079/2RP-824

Sampling will begin at 8:00 a.m. on Tuesday, January 3, 2023 and continue through Saturday, January 7, 2023.

Thank you,

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



Artesia Division

From: [Tina Huerta](#)
To: ocd.enviro@emnrd.nm.gov
Cc: [Artesia S&E Spill Remediation](#); [Artesia Regulatory](#)
Subject: Dayton ER Battery (NMLB1122253079/2RP-824) Sampling Notification
Date: January 5, 2023 8:09:58 AM
Attachments: [image001.png](#)

Good Morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Dayton ER Battery
I-21-18S-26E
Eddy County, NM
NMLB1122253079/2RP-824

Sampling will begin at 8:30 a.m. on Monday, January 9, 2023 and continue through Sunday, January 15, 2023.

Thank you,

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



Artesia Division

From: [Amber Griffin](#)
To: [Chance Dixon](#)
Cc: [Chase Settle](#)
Subject: FW: [EXTERNAL] Dayton ER Battery (NMLB1122253079/2RP-824) Sampling Notification
Date: January 12, 2023 10:55:22 AM
Attachments: [image003.png](#)

Thank you,
Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, January 12, 2023 8:19 AM
To: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: FW: [EXTERNAL] Dayton ER Battery (NMLB1122253079/2RP-824) Sampling Notification

FYI

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, January 12, 2023 8:14 AM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Dayton ER Battery (NMLB1122253079/2RP-824) Sampling Notification

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Tina,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
<http://www.emnrd.nm.gov>



From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, January 12, 2023 5:12 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: [EXTERNAL] Dayton ER Battery (NMLB1122253079/2RP-824) Sampling Notification

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

Good Morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Dayton ER Battery
I-21-18S-26E
Eddy County, NM
NMLB1122253079/2RP-824

Sampling will begin at 8:30 a.m. on Monday, January 16, 2023 and continue through Sunday, January 22, 2023.

Thank you,

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



From: [Tina Huerta](#)
To: [Artesia S&E Spill Remediation](#)
Cc: [Artesia Regulatory](#)
Subject: FW: [EXTERNAL] Dayton ER Battery (NMLB1122253079/2RP-824) Sampling Notification
Date: January 19, 2023 8:19:24 AM
Attachments: [image002.jpg](#)
[image003.png](#)

FYI

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, January 19, 2023 8:12 AM
To: Tina Huerta <Tina_Huerta@eogresources.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Dayton ER Battery (NMLB1122253079/2RP-824) Sampling Notification

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Tina,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, January 19, 2023 5:40 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: [EXTERNAL] Dayton ER Battery (NMLB1122253079/2RP-824) Sampling Notification

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

links or opening attachments.

Good Morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Dayton ER Battery
I-21-18S-26E
Eddy County, NM
NMLB1122253079/2RP-824

Sampling will begin at 8:30 a.m. on Monday, January 23, 2023 and continue through Saturday, January 28, 2023.

Thank you,

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



Artesia Division

From: [Tina Huerta](#)
To: ocd.enviro@emnrd.nm.gov
Cc: [Artesia S&E Spill Remediation](#); [Artesia Regulatory](#)
Subject: Dayton ER Battery (NMLB1122253079/2RP-824) Sampling Notification
Date: January 26, 2023 7:13:58 AM
Attachments: [image001.png](#)

Good Morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Dayton ER Battery
I-21-18S-26E
Eddy County, NM
NMLB1122253079/2RP-824

Sampling will begin at 8:30 a.m. on Monday, January 30, 2023 and continue through Sunday, February 5, 2023.

Thank you,

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



Artesia Division

From: [Tina Huerta](#)
To: ocd.enviro@emnrd.nm.gov
Cc: [Artesia S&E Spill Remediation](#); [Artesia Regulatory](#)
Subject: Dayton ER Battery (NMLB1122253079/2RP-824) Sampling Notification
Date: February 2, 2023 6:00:35 AM
Attachments: [image001.png](#)

Good Morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Dayton ER Battery
I-21-18S-26E
Eddy County, NM
NMLB1122253079/2RP-824

Sampling will begin at 8:00 a.m. on Monday, February 6, 2023 and continue through Friday, February 10, 2023.

Thank you,

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



Artesia Division

From: [Tina Huerta](#)
To: ocd.enviro@emnrd.nm.gov
Cc: [Artesia S&E Spill Remediation](#); [Artesia Regulatory](#)
Subject: Dayton ER Battery (NMLB1122253079/2RP-824) Sampling Notification
Date: February 9, 2023 5:50:11 AM
Attachments: [image001.png](#)

Good Morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Dayton ER Battery
I-21-18S-26E
Eddy County, NM
NMLB1122253079/2RP-824

Sampling will begin at 8:30 a.m. on Monday, February 13, 2023 and continue through Friday, February 17, 2023.

Thank you,

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



Artesia Division

From: [Tina Huerta](#)
To: ocd.enviro@emnrd.nm.gov
Cc: [Artesia S&E Spill Remediation](#); [Artesia Regulatory](#)
Subject: Dayton ER Battery (NMLB1122253079/2RP-824) Sampling Notification
Date: February 16, 2023 7:36:25 AM
Attachments: [image001.png](#)

Good morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Dayton ER Battery
I-21-18S-26E
Eddy County, NM
NMLB1122253079/2RP-824

Sampling will begin at 8:30 a.m. on Monday, February 20, 2023, and continue through Friday, February 24, 2023.

Thank you,

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



Artesia Division

From: [Tina Huerta](#)
To: ocd.enviro@emnrd.nm.gov
Cc: [Artesia S&E Spill Remediation](#); [Artesia Regulatory](#)
Subject: Dayton ER Battery (NMLB1122253079/2RP-824) Sampling Notification
Date: February 23, 2023 8:06:51 AM
Attachments: [image001.png](#)

Good morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Dayton ER Battery
I-21-18S-26E
Eddy County, NM
NMLB1122253079/2RP-824

Sampling will begin at 8:30 a.m. on Monday, February 27, 2023, and continue through Friday, March 3, 2023.

Thank you,

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



Artesia Division

From: [Tina Huerta](#)
To: ocd.enviro@emnrd.nm.gov
Cc: [Artesia S&E Spill Remediation](#); [Artesia Regulatory](#)
Subject: Dayton ER Battery (NMLB1122253079/2RP-824) Sampling Notification
Date: March 2, 2023 6:04:48 AM
Attachments: [image001.png](#)

Good morning,

EOG Resources, Inc. respectfully submits notification (2) business days prior to conducting sampling on the following location.

Dayton ER Battery
I-21-18S-26E
Eddy County, NM
NMLB1122253079/2RP-824

Sampling will begin at 8:30 a.m. on Monday, March 6, 2023, and continue through Friday, March 10, 2023.

Thank you,

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



Artesia Division

ATTACHMENT 7



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

July 08, 2022

Monica Peppin

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX

RE: Dayton Battery

OrderNo.: 2206D52

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/24/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2206D52**

Date Reported: **7/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG
Project: Dayton Battery
Lab ID: 2206D52-001

Matrix: SOIL

Client Sample ID: WES22-04 1'
Collection Date: 6/23/2022 8:30:00 AM
Received Date: 6/24/2022 8:16:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	7400	300		mg/Kg	100	7/1/2022 10:57:18 AM	68444
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	110	15		mg/Kg	1	7/1/2022 3:35:18 PM	68386
Motor Oil Range Organics (MRO)	120	48		mg/Kg	1	7/1/2022 3:35:18 PM	68386
Surr: DNOP	92.3	51.1-141		%Rec	1	7/1/2022 3:35:18 PM	68386
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/28/2022 5:50:00 PM	68381
Surr: BFB	87.2	37.7-212		%Rec	1	6/28/2022 5:50:00 PM	68381
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/28/2022 5:50:00 PM	68381
Toluene	ND	0.047		mg/Kg	1	6/28/2022 5:50:00 PM	68381
Ethylbenzene	ND	0.047		mg/Kg	1	6/28/2022 5:50:00 PM	68381
Xylenes, Total	ND	0.094		mg/Kg	1	6/28/2022 5:50:00 PM	68381
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	6/28/2022 5:50:00 PM	68381

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

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

Analytical Report

Lab Order **2206D52**

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-07 2'

Project: Dayton Battery

Collection Date: 6/23/2022 8:35:00 AM

Lab ID: 2206D52-002

Matrix: SOIL

Received Date: 6/24/2022 8:16:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	800	60		mg/Kg	20	6/29/2022 7:30:59 PM	68444
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/30/2022 3:32:16 AM	68415
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	6/30/2022 3:32:16 AM	68415
Surr: DNOP	90.7	51.1-141		%Rec	1	6/30/2022 3:32:16 AM	68415
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/28/2022 3:57:04 PM	68382
Surr: BFB	101	37.7-212		%Rec	1	6/28/2022 3:57:04 PM	68382
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/28/2022 3:57:04 PM	68382
Toluene	ND	0.048		mg/Kg	1	6/28/2022 3:57:04 PM	68382
Ethylbenzene	ND	0.048		mg/Kg	1	6/28/2022 3:57:04 PM	68382
Xylenes, Total	ND	0.097		mg/Kg	1	6/28/2022 3:57:04 PM	68382
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	6/28/2022 3:57:04 PM	68382

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206D52

08-Jul-22

Client: EOG
Project: Dayton Battery

Sample ID: MB-68444	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68444	RunNo: 89143								
Prep Date: 6/29/2022	Analysis Date: 6/29/2022	SeqNo: 3167724	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68444	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68444	RunNo: 89143								
Prep Date: 6/29/2022	Analysis Date: 6/29/2022	SeqNo: 3167725	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			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206D52

08-Jul-22

Client: EOG
Project: Dayton Battery

Sample ID: MB-68386	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68386	RunNo: 89114								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3168753			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.1	51.1	141			

Sample ID: LCS-68386	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68386	RunNo: 89114								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3168754			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	15	50.00	0	96.7	64.4	127			
Surr: DNOP	5.1		5.000		102	51.1	141			

Sample ID: MB-68415	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68415	RunNo: 89114								
Prep Date: 6/28/2022	Analysis Date: 6/30/2022	SeqNo: 3170264			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.5	51.1	141			

Sample ID: LCS-68415	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68415	RunNo: 89114								
Prep Date: 6/28/2022	Analysis Date: 6/30/2022	SeqNo: 3170265			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	98.8	64.4	127			
Surr: DNOP	5.1		5.000		103	51.1	141			

Sample ID: MB-68483	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68483	RunNo: 89114								
Prep Date: 6/30/2022	Analysis Date: 7/1/2022	SeqNo: 3171985			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		125	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206D52

08-Jul-22

Client: EOG
Project: Dayton Battery

Sample ID: LCS-68483	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68483	RunNo: 89114								
Prep Date: 6/30/2022	Analysis Date: 7/1/2022	SeqNo: 3171988	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		5.000		110	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206D52

08-Jul-22

Client: EOG
Project: Dayton Battery

Sample ID: ics-68381	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 68381	RunNo: 89080								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3164760	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	72.3	137			
Surr: BFB	2000		1000		196	37.7	212			

Sample ID: mb-68381	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 68381	RunNo: 89080								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3164761	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	870		1000		87.5	37.7	212			

Sample ID: mb-68382	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 68382	RunNo: 89090								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3165011	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	37.7	212			

Sample ID: ics-68382	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 68382	RunNo: 89090								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3165012	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	114	72.3	137			
Surr: BFB	2200		1000		218	37.7	212			S

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206D52

08-Jul-22

Client: EOG
Project: Dayton Battery

Sample ID: lcs-68381	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 68381	RunNo: 89080								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3164770	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.8	80	120			
Toluene	0.95	0.050	1.000	0	94.8	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.9	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		85.6	70	130			

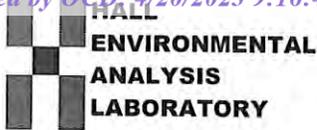
Sample ID: mb-68381	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 68381	RunNo: 89080								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3164771	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		85.2	70	130			

Sample ID: mb-68382	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 68382	RunNo: 89090								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3165039	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		94.7	70	130			

Sample ID: LCS-68382	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 68382	RunNo: 89090								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3165040	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.9	80	120			
Toluene	0.90	0.050	1.000	0	89.6	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.1	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.0	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2206D52

RcptNo: 1

Received By: Kasandra Payan 6/24/2022 8:16:00 AM

Completed By: Cheyenne Cason 6/24/2022 9:11:35 AM

Reviewed By: DAD 6/24/22

Handwritten signatures: KJP, Cason

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by [signature]

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: _____ Date: _____
By Whom: _____ Via: [] eMail [] Phone [] Fax [] In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Rows 1 and 2.



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

September 26, 2022

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Dayton ER Battery

OrderNo.: 2209A38

Dear Michael Moffitt:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/21/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2209A38

Date Reported: 9/26/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-26 0-4'

Project: Dayton ER Battery

Collection Date: 9/15/2022 2:30:00 PM

Lab ID: 2209A38-001

Matrix: MEOH (SOIL)

Received Date: 9/21/2022 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	14		mg/Kg	1	9/21/2022 6:19:32 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/21/2022 6:19:32 PM
Surr: DNOP	91.6	21-129		%Rec	1	9/21/2022 6:19:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	19		mg/Kg	5	9/21/2022 8:27:00 PM
Surr: BFB	103	37.7-212		%Rec	5	9/21/2022 8:27:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.094		mg/Kg	5	9/21/2022 8:27:00 PM
Toluene	ND	0.19		mg/Kg	5	9/21/2022 8:27:00 PM
Ethylbenzene	ND	0.19		mg/Kg	5	9/21/2022 8:27:00 PM
Xylenes, Total	ND	0.37		mg/Kg	5	9/21/2022 8:27:00 PM
Surr: 4-Bromofluorobenzene	85.9	70-130		%Rec	5	9/21/2022 8:27:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	360	60		mg/Kg	20	9/21/2022 9:18:45 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209A38

26-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-70331	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 70331	RunNo: 91197								
Prep Date: 9/21/2022	Analysis Date: 9/21/2022	SeqNo: 3264261	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70331	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 70331	RunNo: 91197								
Prep Date: 9/21/2022	Analysis Date: 9/21/2022	SeqNo: 3264262	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209A38

26-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-70316	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 70316		RunNo: 91190							
Prep Date: 9/21/2022	Analysis Date: 9/21/2022		SeqNo: 3262933		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	15	50.00	0	73.1	64.4	127			
Surr: DNOP	3.2		5.000		63.1	21	129			

Sample ID: MB-70316	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 70316		RunNo: 91190							
Prep Date: 9/21/2022	Analysis Date: 9/21/2022		SeqNo: 3262934		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.3		10.00		72.9	21	129			

Qualifiers:

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

QC SUMMARY REPORT

WO#: 2209A38

Hall Environmental Analysis Laboratory, Inc.

26-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2.5ug gro lcs2	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: D91192		RunNo: 91192							
Prep Date:	Analysis Date: 9/21/2022		SeqNo: 3263277		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.9	72.3	137			
Surr: BFB	2200		1000		219	37.7	212			S

Sample ID: mb 2	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: D91192		RunNo: 91192							
Prep Date:	Analysis Date: 9/21/2022		SeqNo: 3263834		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	980		1000		98.3	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209A38

26-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 100ng btex lcs2	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: E91192		RunNo: 91192							
Prep Date:	Analysis Date: 9/21/2022		SeqNo: 3263294		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	83.3	80	120			
Toluene	0.85	0.050	1.000	0	85.1	80	120			
Ethylbenzene	0.85	0.050	1.000	0	85.2	80	120			
Xylenes, Total	2.5	0.10	3.000	0	84.2	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.2	70	130			

Sample ID: 2209a38-001a ms	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: TP22-26 0-4'	Batch ID: E91192		RunNo: 91192							
Prep Date:	Analysis Date: 9/21/2022		SeqNo: 3263301		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.2	0.094	3.748	0	84.7	68.8	120			
Toluene	3.3	0.19	3.748	0	86.7	73.6	124			
Ethylbenzene	3.3	0.19	3.748	0	87.0	72.7	129			
Xylenes, Total	9.6	0.37	11.24	0	85.2	75.7	126			
Surr: 4-Bromofluorobenzene	3.2		3.748		86.2	70	130			

Sample ID: 2209A38-001A MSD	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: TP22-26 0-4'	Batch ID: E91192		RunNo: 91192							
Prep Date:	Analysis Date: 9/21/2022		SeqNo: 3263302		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.1	0.094	3.748	0	81.9	68.8	120	3.38	20	
Toluene	3.1	0.19	3.748	0	82.5	73.6	124	5.06	20	
Ethylbenzene	3.1	0.19	3.748	0	83.5	72.7	129	4.10	20	
Xylenes, Total	9.3	0.37	11.24	0	82.5	75.7	126	3.22	20	
Surr: 4-Bromofluorobenzene	3.2		3.748		84.1	70	130	0	0	

Sample ID: mb 2	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: E91192		RunNo: 91192							
Prep Date:	Analysis Date: 9/21/2022		SeqNo: 3263835		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	0.85		1.000		85.0	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc.

Work Order Number: 2209A38

RcptNo: 1

Received By: Juan Rojas

9/21/2022 7:30:00 AM

[Signature]

Completed By: Cheyenne Cason

9/21/2022 8:38:07 AM

[Signature]

Reviewed By: [Signature] 9.21.22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: [Signature] 9/21/22

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 1.8, Good, Not Present, [], [], []



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

September 27, 2022

Michael Moffitt

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

RE: Dayton ER Battery

OrderNo.: 2209B47

Dear Michael Moffitt:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/22/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2209B47**

Date Reported: **9/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-28 0-4'

Project: Dayton ER Battery

Collection Date: 9/20/2022 1:45:00 PM

Lab ID: 2209B47-001

Matrix: MEOH (SOIL)

Received Date: 9/22/2022 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	15		mg/Kg	1	9/22/2022 11:05:00 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/22/2022 11:05:00 AM
Surr: DNOP	100	21-129		%Rec	1	9/22/2022 11:05:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	9/22/2022 9:16:45 AM
Surr: BFB	94.5	37.7-212		%Rec	1	9/22/2022 9:16:45 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.020		mg/Kg	1	9/22/2022 9:16:45 AM
Toluene	ND	0.040		mg/Kg	1	9/22/2022 9:16:45 AM
Ethylbenzene	ND	0.040		mg/Kg	1	9/22/2022 9:16:45 AM
Xylenes, Total	ND	0.079		mg/Kg	1	9/22/2022 9:16:45 AM
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	9/22/2022 9:16:45 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	73	60		mg/Kg	20	9/22/2022 12:26:20 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209B47

27-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-70350	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 70350	RunNo: 91229								
Prep Date: 9/22/2022	Analysis Date: 9/22/2022	SeqNo: 3265703	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70350	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 70350	RunNo: 91229								
Prep Date: 9/22/2022	Analysis Date: 9/22/2022	SeqNo: 3265704	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.3	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209B47

27-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-70343	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 70343		RunNo: 91228							
Prep Date: 9/22/2022	Analysis Date: 9/22/2022		SeqNo: 3264488		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	34	15	50.00	0	69.0	64.4	127			
Surr: DNOP	3.0		5.000		59.9	21	129			

Sample ID: MB-70343	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 70343		RunNo: 91228							
Prep Date: 9/22/2022	Analysis Date: 9/22/2022		SeqNo: 3264490		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		87.9	21	129			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209B47

27-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: ics-70327	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 70327		RunNo: 91225							
Prep Date: 9/21/2022	Analysis Date: 9/22/2022		SeqNo: 3265220		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	72.3	137			
Surr: BFB	2000		1000		198	37.7	212			

Sample ID: mb-70327	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 70327		RunNo: 91225							
Prep Date: 9/21/2022	Analysis Date: 9/22/2022		SeqNo: 3265222		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	960		1000		96.4	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209B47

27-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-70327	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 70327		RunNo: 91225							
Prep Date: 9/21/2022	Analysis Date: 9/22/2022		SeqNo: 3265259		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.8	80	120			
Toluene	0.99	0.050	1.000	0	99.4	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: mb-70327	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 70327		RunNo: 91225							
Prep Date: 9/21/2022	Analysis Date: 9/22/2022		SeqNo: 3265261		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: **Vertex Resources Services, Inc.** Work Order Number: **2209B47** RcptNo: 1

Received By: **Juan Rojas** 9/22/2022 7:30:00 AM *Juan Rojas*
 Completed By: **Cheyenne Cason** 9/22/2022 7:55:39 AM *Cason*
 Reviewed By: *[Signature]* 9-22-22

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: *Juan 9/22/22*

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good	Not Present			

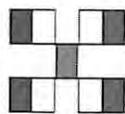
Chain-of-Custody Record

Client: Vertex (E06)
 Turn-Around Time: Standard Rush 24 hr
 Project Name: Dayton ER Battery
 Project #: 22E-00123-01

Project Manager: Michael Moffitt
 Sampler: SPC
 On Ice: Yes No
 # of Coolers: 1
 Cooler Temp (including CF): 0.5 to 1.50.9 (°C)

Container Type and #: 1 4oz jar ice
 Preservative Type: ice
 HEAL No.: 220913217
 001

Date	Time	Matrix	Sample Name	Relinquished by:	Relinquished Time:	Via:	Received by:	Received Date:	Received Time:
9/20	13:45	Soil	TP22-28 0-4"	Sally Carttar	15:33	Wynn	Wynn	9/22	9:00
				Adams				9/22	7:30



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

<input checked="" type="checkbox"/> BTX / MTBE / TMB's (8021)	<input checked="" type="checkbox"/>
TPH:8015D(GRO / DRO / MRO)	<input checked="" type="checkbox"/>
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
<input checked="" type="checkbox"/> CH ₄ , Br ₂ , NO ₂ , NO ₃ , PO ₄ , SO ₄	<input checked="" type="checkbox"/>
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Remarks:

Direct bill EOG



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

October 12, 2022

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Dayton ER Battery

OrderNo.: 2209F94

Dear Michael Moffitt:

Hall Environmental Analysis Laboratory received 3 sample(s) on 9/29/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2209F94**

Date Reported: **10/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-29 0-4'

Project: Dayton ER Battery

Collection Date: 9/27/2022 9:45:00 AM

Lab ID: 2209F94-001

Matrix: SOIL

Received Date: 9/29/2022 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	14		mg/Kg	1	9/30/2022 11:22:59 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/30/2022 11:22:59 PM
Surr: DNOP	95.3	21-129		%Rec	1	9/30/2022 11:22:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/30/2022 10:48:02 AM
Surr: BFB	98.4	37.7-212		%Rec	1	9/30/2022 10:48:02 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/30/2022 10:48:02 AM
Toluene	ND	0.049		mg/Kg	1	9/30/2022 10:48:02 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/30/2022 10:48:02 AM
Xylenes, Total	ND	0.098		mg/Kg	1	9/30/2022 10:48:02 AM
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	9/30/2022 10:48:02 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	3000	150		mg/Kg	50	10/4/2022 1:47:35 PM

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

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

Analytical Report

Lab Order **2209F94**

Date Reported: **10/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-30 0-4'

Project: Dayton ER Battery

Collection Date: 9/27/2022 9:55:00 AM

Lab ID: 2209F94-002

Matrix: SOIL

Received Date: 9/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	150	15		mg/Kg	1	10/8/2022 6:30:52 AM
Motor Oil Range Organics (MRO)	450	49		mg/Kg	1	10/8/2022 6:30:52 AM
Surr: DNOP	124	21-129		%Rec	1	10/8/2022 6:30:52 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/30/2022 11:58:38 AM
Surr: BFB	93.3	37.7-212		%Rec	1	9/30/2022 11:58:38 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/30/2022 11:58:38 AM
Toluene	ND	0.049		mg/Kg	1	9/30/2022 11:58:38 AM
Ethylbenzene	ND	0.049		mg/Kg	1	9/30/2022 11:58:38 AM
Xylenes, Total	ND	0.098		mg/Kg	1	9/30/2022 11:58:38 AM
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	9/30/2022 11:58:38 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	280	60		mg/Kg	20	10/1/2022 1:21:06 PM

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

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

Analytical Report

Lab Order **2209F94**

Date Reported: **10/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-23 0-4'

Project: Dayton ER Battery

Collection Date: 9/27/2022 10:55:00 AM

Lab ID: 2209F94-003

Matrix: SOIL

Received Date: 9/29/2022 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	14		mg/Kg	1	10/1/2022 12:05:55 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/1/2022 12:05:55 AM
Surr: DNOP	96.3	21-129		%Rec	1	10/1/2022 12:05:55 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/30/2022 1:09:12 PM
Surr: BFB	94.9	37.7-212		%Rec	1	9/30/2022 1:09:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	9/30/2022 1:09:12 PM
Toluene	ND	0.050		mg/Kg	1	9/30/2022 1:09:12 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/30/2022 1:09:12 PM
Xylenes, Total	ND	0.099		mg/Kg	1	9/30/2022 1:09:12 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	9/30/2022 1:09:12 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	1300	60		mg/Kg	20	10/1/2022 1:58:19 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209F94

13-Oct-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-70532	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 70532	RunNo: 91459								
Prep Date: 9/30/2022	Analysis Date: 10/1/2022	SeqNo: 3275048	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70532	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 70532	RunNo: 91459								
Prep Date: 9/30/2022	Analysis Date: 10/1/2022	SeqNo: 3275049	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.4	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209F94

13-Oct-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2209F94-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP22-29 0-4'	Batch ID: 70498	RunNo: 91439								
Prep Date: 9/29/2022	Analysis Date: 9/30/2022	SeqNo: 3276329	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	32	15	48.83	0	66.2	36.1	154			
Surr: DNOP	3.2		4.883		66.5	21	129			

Sample ID: 2209F94-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP22-29 0-4'	Batch ID: 70498	RunNo: 91439								
Prep Date: 9/29/2022	Analysis Date: 9/30/2022	SeqNo: 3276330	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	29	15	48.83	0	59.5	36.1	154	10.6	33.9	
Surr: DNOP	2.9		4.883		58.9	21	129	0	0	

Sample ID: LCS-70498	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 70498	RunNo: 91439								
Prep Date: 9/29/2022	Analysis Date: 9/30/2022	SeqNo: 3276339	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	34	15	50.00	0	68.6	64.4	127			
Surr: DNOP	3.8		5.000		75.0	21	129			

Sample ID: MB-70498	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 70498	RunNo: 91439								
Prep Date: 9/29/2022	Analysis Date: 9/30/2022	SeqNo: 3276341	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		97.4	21	129			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209F94

13-Oct-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2209f94-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: TP22-29 0-4'	Batch ID: 70494	RunNo: 91470								
Prep Date: 9/29/2022	Analysis Date: 9/30/2022	SeqNo: 3276037	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	24.80	0	116	70	130			
Surr: BFB	2100		992.1		211	37.7	212			

Sample ID: 2209f94-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: TP22-29 0-4'	Batch ID: 70494	RunNo: 91470								
Prep Date: 9/29/2022	Analysis Date: 9/30/2022	SeqNo: 3276038	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.63	0	105	70	130	11.1	20	
Surr: BFB	2000		985.2		203	37.7	212	0	0	

Sample ID: LCS-70494	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 70494	RunNo: 91470								
Prep Date: 9/29/2022	Analysis Date: 9/30/2022	SeqNo: 3276041	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.6	72.3	137			
Surr: BFB	1900		1000		190	37.7	212			

Sample ID: mb-70494	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 70494	RunNo: 91470								
Prep Date: 9/29/2022	Analysis Date: 9/30/2022	SeqNo: 3276043	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209F94

13-Oct-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2209f94-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP22-30 0-4'	Batch ID: 70494	RunNo: 91470								
Prep Date: 9/29/2022	Analysis Date: 9/30/2022	SeqNo: 3276052	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9747	0	106	68.8	120			
Toluene	1.1	0.049	0.9747	0	111	73.6	124			
Ethylbenzene	1.1	0.049	0.9747	0	111	72.7	129			
Xylenes, Total	3.3	0.097	2.924	0.01814	111	75.7	126			
Surr: 4-Bromofluorobenzene	0.99		0.9747		101	70	130			

Sample ID: 2209f94-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP22-30 0-4'	Batch ID: 70494	RunNo: 91470								
Prep Date: 9/29/2022	Analysis Date: 9/30/2022	SeqNo: 3276053	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.024	0.9756	0	91.2	68.8	120	14.9	20	
Toluene	0.93	0.049	0.9756	0	95.2	73.6	124	14.9	20	
Ethylbenzene	0.94	0.049	0.9756	0	96.0	72.7	129	14.0	20	
Xylenes, Total	2.8	0.098	2.927	0.01814	95.3	75.7	126	15.0	20	
Surr: 4-Bromofluorobenzene	0.96		0.9756		98.6	70	130	0	0	

Sample ID: lcs-70494	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 70494	RunNo: 91470								
Prep Date: 9/29/2022	Analysis Date: 9/30/2022	SeqNo: 3276055	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.4	80	120			
Toluene	0.91	0.050	1.000	0	91.0	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	70	130			

Sample ID: mb-70494	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 70494	RunNo: 91470								
Prep Date: 9/29/2022	Analysis Date: 9/30/2022	SeqNo: 3276056	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.9	70	130			

Qualifiers:

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



Sample Log-In Check List

Client Name: Vertex Resources Services, Inc.

Work Order Number: 2209F94

RcptNo: 1

Received By: Juan Rojas

9/29/2022 7:30:00 AM

Juan Rojas

Completed By: Tracy Casarrubias

9/29/2022 8:02:47 AM

Reviewed By: *JR 9/29/22*

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: *KPA 9.29.22*

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



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

June 15, 2022

Monica Peppin

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Dayton ER Battery

OrderNo.: 2206109

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 6 sample(s) on 6/2/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2206109**

Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-02 1'

Project: Dayton ER Battery

Collection Date: 5/31/2022 9:00:00 AM

Lab ID: 2206109-001

Matrix: SOIL

Received Date: 6/2/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/7/2022 12:06:38 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/7/2022 12:06:38 PM
Surr: DNOP	116	51.1-141		%Rec	1	6/7/2022 12:06:38 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	3800	150		mg/Kg	50	6/8/2022 2:32:29 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	6/3/2022 5:08:42 PM
Toluene	ND	0.048		mg/Kg	1	6/3/2022 5:08:42 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/3/2022 5:08:42 PM
Xylenes, Total	ND	0.096		mg/Kg	1	6/3/2022 5:08:42 PM
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	6/3/2022 5:08:42 PM
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	6/3/2022 5:08:42 PM
Surr: Dibromofluoromethane	117	70-130		%Rec	1	6/3/2022 5:08:42 PM
Surr: Toluene-d8	95.2	70-130		%Rec	1	6/3/2022 5:08:42 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/3/2022 5:08:42 PM
Surr: BFB	103	70-130		%Rec	1	6/3/2022 5:08:42 PM

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

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

Analytical Report

Lab Order **2206109**

Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-03 1'

Project: Dayton ER Battery

Collection Date: 5/31/2022 9:05:00 AM

Lab ID: 2206109-002

Matrix: SOIL

Received Date: 6/2/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	91	15		mg/Kg	1	6/9/2022 11:09:20 AM
Motor Oil Range Organics (MRO)	150	48		mg/Kg	1	6/9/2022 11:09:20 AM
Surr: DNOP	106	51.1-141		%Rec	1	6/9/2022 11:09:20 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	4800	300		mg/Kg	100	6/8/2022 2:44:49 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	6/3/2022 5:37:23 PM
Toluene	ND	0.048		mg/Kg	1	6/3/2022 5:37:23 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/3/2022 5:37:23 PM
Xylenes, Total	ND	0.097		mg/Kg	1	6/3/2022 5:37:23 PM
Surr: 1,2-Dichloroethane-d4	97.9	70-130		%Rec	1	6/3/2022 5:37:23 PM
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	6/3/2022 5:37:23 PM
Surr: Dibromofluoromethane	112	70-130		%Rec	1	6/3/2022 5:37:23 PM
Surr: Toluene-d8	95.9	70-130		%Rec	1	6/3/2022 5:37:23 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/3/2022 5:37:23 PM
Surr: BFB	103	70-130		%Rec	1	6/3/2022 5:37:23 PM

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

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

Analytical Report

Lab Order **2206109**

Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-09 0'

Project: Dayton ER Battery

Collection Date: 5/31/2022 9:15:00 AM

Lab ID: 2206109-003

Matrix: SOIL

Received Date: 6/2/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	18	14		mg/Kg	1	6/7/2022 12:34:29 PM
Motor Oil Range Organics (MRO)	77	46		mg/Kg	1	6/7/2022 12:34:29 PM
Surr: DNOP	91.3	51.1-141		%Rec	1	6/7/2022 12:34:29 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/8/2022 3:28:51 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	6/3/2022 6:05:59 PM
Toluene	ND	0.049		mg/Kg	1	6/3/2022 6:05:59 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/3/2022 6:05:59 PM
Xylenes, Total	ND	0.098		mg/Kg	1	6/3/2022 6:05:59 PM
Surr: 1,2-Dichloroethane-d4	99.2	70-130		%Rec	1	6/3/2022 6:05:59 PM
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	6/3/2022 6:05:59 PM
Surr: Dibromofluoromethane	109	70-130		%Rec	1	6/3/2022 6:05:59 PM
Surr: Toluene-d8	96.4	70-130		%Rec	1	6/3/2022 6:05:59 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/3/2022 6:05:59 PM
Surr: BFB	106	70-130		%Rec	1	6/3/2022 6:05:59 PM

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

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

Analytical Report

Lab Order **2206109**

Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-09 4'

Project: Dayton ER Battery

Collection Date: 5/31/2022 10:40:00 AM

Lab ID: 2206109-004

Matrix: SOIL

Received Date: 6/2/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/7/2022 12:48:26 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/7/2022 12:48:26 PM
Surr: DNOP	106	51.1-141		%Rec	1	6/7/2022 12:48:26 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	620	60		mg/Kg	20	6/8/2022 3:41:16 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JR
Benzene	ND	0.023		mg/Kg	1	6/3/2022 6:34:34 PM
Toluene	ND	0.046		mg/Kg	1	6/3/2022 6:34:34 PM
Ethylbenzene	ND	0.046		mg/Kg	1	6/3/2022 6:34:34 PM
Xylenes, Total	ND	0.092		mg/Kg	1	6/3/2022 6:34:34 PM
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	6/3/2022 6:34:34 PM
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	6/3/2022 6:34:34 PM
Surr: Dibromofluoromethane	112	70-130		%Rec	1	6/3/2022 6:34:34 PM
Surr: Toluene-d8	98.9	70-130		%Rec	1	6/3/2022 6:34:34 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/3/2022 6:34:34 PM
Surr: BFB	105	70-130		%Rec	1	6/3/2022 6:34:34 PM

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

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

Analytical Report

Lab Order **2206109**

Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-10 0'

Project: Dayton ER Battery

Collection Date: 5/31/2022 10:30:00 AM

Lab ID: 2206109-005

Matrix: SOIL

Received Date: 6/2/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/7/2022 1:02:12 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/7/2022 1:02:12 PM
Surr: DNOP	94.0	51.1-141		%Rec	1	6/7/2022 1:02:12 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	110	61		mg/Kg	20	6/8/2022 3:53:41 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	6/3/2022 7:03:09 PM
Toluene	ND	0.047		mg/Kg	1	6/3/2022 7:03:09 PM
Ethylbenzene	ND	0.047		mg/Kg	1	6/3/2022 7:03:09 PM
Xylenes, Total	ND	0.095		mg/Kg	1	6/3/2022 7:03:09 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	6/3/2022 7:03:09 PM
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	6/3/2022 7:03:09 PM
Surr: Dibromofluoromethane	115	70-130		%Rec	1	6/3/2022 7:03:09 PM
Surr: Toluene-d8	95.7	70-130		%Rec	1	6/3/2022 7:03:09 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/3/2022 7:03:09 PM
Surr: BFB	107	70-130		%Rec	1	6/3/2022 7:03:09 PM

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

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

Analytical Report

Lab Order **2206109**

Date Reported: **6/15/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-10 2'

Project: Dayton ER Battery

Collection Date: 5/31/2022 10:35:00 AM

Lab ID: 2206109-006

Matrix: SOIL

Received Date: 6/2/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/7/2022 1:15:54 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/7/2022 1:15:54 PM
Surr: DNOP	92.3	51.1-141		%Rec	1	6/7/2022 1:15:54 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	190	60		mg/Kg	20	6/8/2022 4:06:06 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	6/3/2022 7:31:42 PM
Toluene	ND	0.050		mg/Kg	1	6/3/2022 7:31:42 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/3/2022 7:31:42 PM
Xylenes, Total	ND	0.099		mg/Kg	1	6/3/2022 7:31:42 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	6/3/2022 7:31:42 PM
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	6/3/2022 7:31:42 PM
Surr: Dibromofluoromethane	116	70-130		%Rec	1	6/3/2022 7:31:42 PM
Surr: Toluene-d8	95.7	70-130		%Rec	1	6/3/2022 7:31:42 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/3/2022 7:31:42 PM
Surr: BFB	105	70-130		%Rec	1	6/3/2022 7:31:42 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206109

15-Jun-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-67954	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 67954	RunNo: 88553								
Prep Date: 6/7/2022	Analysis Date: 6/7/2022	SeqNo: 3142296	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-67954	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 67954	RunNo: 88553								
Prep Date: 6/7/2022	Analysis Date: 6/8/2022	SeqNo: 3142297	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206109

15-Jun-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-67875	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 67875	RunNo: 88532								
Prep Date: 6/3/2022	Analysis Date: 6/7/2022	SeqNo: 3141575	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	51.1	141			

Sample ID: LCS-67875	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 67875	RunNo: 88532								
Prep Date: 6/3/2022	Analysis Date: 6/7/2022	SeqNo: 3141576	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	89.4	64.4	127			
Surr: DNOP	4.3		5.000		85.4	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

WO#: 2206109

Hall Environmental Analysis Laboratory, Inc.

15-Jun-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: ics-67869	SampType: LCS4		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: BatchQC	Batch ID: 67869		RunNo: 88481							
Prep Date: 6/2/2022	Analysis Date: 6/3/2022		SeqNo: 3139106	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.4	80	120			
Toluene	0.92	0.050	1.000	0	91.6	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.1	80	120			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.2	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.4	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		109	70	130			
Surr: Toluene-d8	0.49		0.5000		97.7	70	130			

Sample ID: mb-67869	SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batch ID: 67869		RunNo: 88481							
Prep Date: 6/2/2022	Analysis Date: 6/3/2022		SeqNo: 3139107	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		101	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.0	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130			
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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206109

15-Jun-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: ics-67869	SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: 67869		RunNo: 88481							
Prep Date: 6/2/2022	Analysis Date: 6/3/2022		SeqNo: 3139132		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	87.9	70	130			
Surr: BFB	510		500.0		101	70	130			

Sample ID: mb-67869	SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: PBS	Batch ID: 67869		RunNo: 88481							
Prep Date: 6/2/2022	Analysis Date: 6/3/2022		SeqNo: 3139133		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	530		500.0		106	70	130			

Qualifiers:

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

Chain-of-Custody Record

Client: Vertex
 (E06)
 Mailing Address: on file

Phone #: _____
 email or Fax#: _____

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

Accreditation: Az Compliance NELAC Other _____

EDD (Type) _____

Turn-Around Time: _____

Standard Rush 5 days

Project Name: Dayton ER Battery

Project #: 22E-00123 01

Project Manager: _____

Monica Pepopin

Sampler: Sally Carttar

On Ice: Yes No

of Coolers: 2 09-0-09

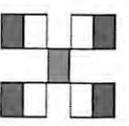
Cooler Temp (including CF): 4.7-5.4-7 (°C)

Container Type and # 1 4oz jar Preservative Type ice HEAL No. 2206109

Date	Time	Matrix	Sample Name	Depth
5/31	9:00	Soil	MS22-02	1'
	9:05		MS22-03	1'
	9:15		BH22-09	0'
	10:40		BH22-09	4'
	10:30		BH22-10	0'
	10:35		BH22-10	2'

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
5/31	5:50	Sally Carttar	Munoz	Bill	5/31	7:00
5/31	7:10	Munoz	Cue	Car	6/12/23	0230

Remarks:	BTEX/ MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>			



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Received by: OCD: 9/20/2023 9:16:46 AM

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

June 17, 2022

Monica Peppin

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Dayton ER Battery

OrderNo.: 2206391

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 17 sample(s) on 6/8/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2206391**

Date Reported: **6/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-01 3'

Project: Dayton ER Battery

Collection Date: 6/1/2022 8:45:00 AM

Lab ID: 2206391-001

Matrix: SOIL

Received Date: 6/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	68	15		mg/Kg	1	6/10/2022 3:58:56 PM
Motor Oil Range Organics (MRO)	65	49		mg/Kg	1	6/10/2022 3:58:56 PM
Surr: DNOP	123	51.1-141		%Rec	1	6/10/2022 3:58:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/9/2022 11:19:10 PM
Surr: BFB	90.2	37.7-212		%Rec	1	6/9/2022 11:19:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/9/2022 11:19:10 PM
Toluene	ND	0.048		mg/Kg	1	6/9/2022 11:19:10 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/9/2022 11:19:10 PM
Xylenes, Total	ND	0.096		mg/Kg	1	6/9/2022 11:19:10 PM
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	6/9/2022 11:19:10 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	2700	150		mg/Kg	50	6/14/2022 4:54:58 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference

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

Analytical Report

Lab Order **2206391**

Date Reported: **6/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-02 1'

Project: Dayton ER Battery

Collection Date: 6/3/2022 8:15:00 AM

Lab ID: 2206391-002

Matrix: SOIL

Received Date: 6/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	110	14		mg/Kg	1	6/13/2022 1:06:47 PM
Motor Oil Range Organics (MRO)	240	48		mg/Kg	1	6/13/2022 1:06:47 PM
Surr: DNOP	97.4	51.1-141		%Rec	1	6/13/2022 1:06:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/10/2022 12:29:34 AM
Surr: BFB	88.8	37.7-212		%Rec	1	6/10/2022 12:29:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/10/2022 12:29:34 AM
Toluene	ND	0.048		mg/Kg	1	6/10/2022 12:29:34 AM
Ethylbenzene	ND	0.048		mg/Kg	1	6/10/2022 12:29:34 AM
Xylenes, Total	ND	0.097		mg/Kg	1	6/10/2022 12:29:34 AM
Surr: 4-Bromofluorobenzene	89.2	70-130		%Rec	1	6/10/2022 12:29:34 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	6800	300		mg/Kg	100	6/14/2022 5:07:22 PM

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

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

Analytical Report

Lab Order **2206391**

Date Reported: **6/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-03 1'

Project: Dayton ER Battery

Collection Date: 6/3/2022 8:20:00 AM

Lab ID: 2206391-003

Matrix: SOIL

Received Date: 6/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	130	15		mg/Kg	1	6/13/2022 1:38:59 PM
Motor Oil Range Organics (MRO)	270	50		mg/Kg	1	6/13/2022 1:38:59 PM
Surr: DNOP	85.7	51.1-141		%Rec	1	6/13/2022 1:38:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/10/2022 1:39:53 AM
Surr: BFB	84.7	37.7-212		%Rec	1	6/10/2022 1:39:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/10/2022 1:39:53 AM
Toluene	ND	0.049		mg/Kg	1	6/10/2022 1:39:53 AM
Ethylbenzene	ND	0.049		mg/Kg	1	6/10/2022 1:39:53 AM
Xylenes, Total	ND	0.098		mg/Kg	1	6/10/2022 1:39:53 AM
Surr: 4-Bromofluorobenzene	90.0	70-130		%Rec	1	6/10/2022 1:39:53 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	8200	300		mg/Kg	100	6/14/2022 5:44:36 PM

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

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

Analytical Report

Lab Order 2206391

Date Reported: 6/17/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-04 1'

Project: Dayton ER Battery

Collection Date: 6/3/2022 8:25:00 AM

Lab ID: 2206391-004

Matrix: SOIL

Received Date: 6/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/10/2022 5:04:50 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/10/2022 5:04:50 PM
Surr: DNOP	67.1	51.1-141		%Rec	1	6/10/2022 5:04:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/10/2022 2:03:20 AM
Surr: BFB	89.4	37.7-212		%Rec	1	6/10/2022 2:03:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/10/2022 2:03:20 AM
Toluene	ND	0.049		mg/Kg	1	6/10/2022 2:03:20 AM
Ethylbenzene	ND	0.049		mg/Kg	1	6/10/2022 2:03:20 AM
Xylenes, Total	ND	0.098		mg/Kg	1	6/10/2022 2:03:20 AM
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	6/10/2022 2:03:20 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	1800	60		mg/Kg	20	6/13/2022 7:54:18 PM

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

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

Analytical Report

Lab Order **2206391**

Date Reported: **6/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-05 1'

Project: Dayton ER Battery

Collection Date: 6/3/2022 1:30:00 PM

Lab ID: 2206391-005

Matrix: SOIL

Received Date: 6/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	190	15		mg/Kg	1	6/13/2022 2:11:11 PM
Motor Oil Range Organics (MRO)	350	49		mg/Kg	1	6/13/2022 2:11:11 PM
Surr: DNOP	94.5	51.1-141		%Rec	1	6/13/2022 2:11:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/10/2022 2:26:53 AM
Surr: BFB	86.5	37.7-212		%Rec	1	6/10/2022 2:26:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/10/2022 2:26:53 AM
Toluene	ND	0.047		mg/Kg	1	6/10/2022 2:26:53 AM
Ethylbenzene	ND	0.047		mg/Kg	1	6/10/2022 2:26:53 AM
Xylenes, Total	ND	0.095		mg/Kg	1	6/10/2022 2:26:53 AM
Surr: 4-Bromofluorobenzene	88.4	70-130		%Rec	1	6/10/2022 2:26:53 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	5300	300		mg/Kg	100	6/15/2022 1:34:59 PM

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

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

Analytical Report

Lab Order **2206391**

Date Reported: **6/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-06 1'

Project: Dayton ER Battery

Collection Date: 6/3/2022 1:35:00 PM

Lab ID: 2206391-006

Matrix: SOIL

Received Date: 6/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/10/2022 5:26:41 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/10/2022 5:26:41 PM
Surr: DNOP	86.2	51.1-141		%Rec	1	6/10/2022 5:26:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/10/2022 2:50:17 AM
Surr: BFB	86.3	37.7-212		%Rec	1	6/10/2022 2:50:17 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/10/2022 2:50:17 AM
Toluene	ND	0.049		mg/Kg	1	6/10/2022 2:50:17 AM
Ethylbenzene	ND	0.049		mg/Kg	1	6/10/2022 2:50:17 AM
Xylenes, Total	ND	0.097		mg/Kg	1	6/10/2022 2:50:17 AM
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	6/10/2022 2:50:17 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	3400	150		mg/Kg	50	6/14/2022 6:09:24 PM

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

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

Analytical Report

Lab Order **2206391**

Date Reported: **6/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-07 1'

Project: Dayton ER Battery

Collection Date: 6/3/2022 1:50:00 PM

Lab ID: 2206391-007

Matrix: SOIL

Received Date: 6/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/10/2022 5:37:37 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/10/2022 5:37:37 PM
Surr: DNOP	93.9	51.1-141		%Rec	1	6/10/2022 5:37:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/10/2022 3:13:38 AM
Surr: BFB	86.9	37.7-212		%Rec	1	6/10/2022 3:13:38 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/10/2022 3:13:38 AM
Toluene	ND	0.048		mg/Kg	1	6/10/2022 3:13:38 AM
Ethylbenzene	ND	0.048		mg/Kg	1	6/10/2022 3:13:38 AM
Xylenes, Total	ND	0.096		mg/Kg	1	6/10/2022 3:13:38 AM
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	6/10/2022 3:13:38 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	3100	150		mg/Kg	50	6/14/2022 6:21:49 PM

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

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

Analytical Report

Lab Order **2206391**

Date Reported: **6/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-08 1'

Project: Dayton ER Battery

Collection Date: 6/3/2022 8:30:00 AM

Lab ID: 2206391-008

Matrix: SOIL

Received Date: 6/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/10/2022 5:48:35 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/10/2022 5:48:35 PM
Surr: DNOP	93.3	51.1-141		%Rec	1	6/10/2022 5:48:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/10/2022 3:37:07 AM
Surr: BFB	88.1	37.7-212		%Rec	1	6/10/2022 3:37:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/10/2022 3:37:07 AM
Toluene	ND	0.050		mg/Kg	1	6/10/2022 3:37:07 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/10/2022 3:37:07 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/10/2022 3:37:07 AM
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	6/10/2022 3:37:07 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	1700	60		mg/Kg	20	6/13/2022 8:43:58 PM

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

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

Analytical Report

Lab Order **2206391**

Date Reported: **6/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-09 1'

Project: Dayton ER Battery

Collection Date: 6/3/2022 1:40:00 PM

Lab ID: 2206391-009

Matrix: SOIL

Received Date: 6/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	6/10/2022 5:59:32 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	6/10/2022 5:59:32 PM
Surr: DNOP	58.6	51.1-141		%Rec	1	6/10/2022 5:59:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/10/2022 4:00:38 AM
Surr: BFB	89.6	37.7-212		%Rec	1	6/10/2022 4:00:38 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/10/2022 4:00:38 AM
Toluene	ND	0.048		mg/Kg	1	6/10/2022 4:00:38 AM
Ethylbenzene	ND	0.048		mg/Kg	1	6/10/2022 4:00:38 AM
Xylenes, Total	ND	0.097		mg/Kg	1	6/10/2022 4:00:38 AM
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	6/10/2022 4:00:38 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	3400	150		mg/Kg	50	6/14/2022 6:34:13 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference

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

Analytical Report

Lab Order **2206391**

Date Reported: **6/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-10 1'

Project: Dayton ER Battery

Collection Date: 6/3/2022 1:45:00 PM

Lab ID: 2206391-010

Matrix: SOIL

Received Date: 6/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/10/2022 6:10:29 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/10/2022 6:10:29 PM
Surr: DNOP	94.5	51.1-141		%Rec	1	6/10/2022 6:10:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/10/2022 4:24:06 AM
Surr: BFB	89.5	37.7-212		%Rec	1	6/10/2022 4:24:06 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/10/2022 4:24:06 AM
Toluene	ND	0.047		mg/Kg	1	6/10/2022 4:24:06 AM
Ethylbenzene	ND	0.047		mg/Kg	1	6/10/2022 4:24:06 AM
Xylenes, Total	ND	0.093		mg/Kg	1	6/10/2022 4:24:06 AM
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	6/10/2022 4:24:06 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	3900	150		mg/Kg	50	6/14/2022 6:46:38 PM

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

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

Analytical Report

Lab Order **2206391**

Date Reported: **6/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-11 4'

Project: Dayton ER Battery

Collection Date: 6/3/2022 8:35:00 AM

Lab ID: 2206391-011

Matrix: SOIL

Received Date: 6/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/10/2022 6:21:25 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/10/2022 6:21:25 PM
Surr: DNOP	84.9	51.1-141		%Rec	1	6/10/2022 6:21:25 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/10/2022 5:11:05 AM
Surr: BFB	90.8	37.7-212		%Rec	1	6/10/2022 5:11:05 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/10/2022 5:11:05 AM
Toluene	ND	0.048		mg/Kg	1	6/10/2022 5:11:05 AM
Ethylbenzene	ND	0.048		mg/Kg	1	6/10/2022 5:11:05 AM
Xylenes, Total	ND	0.096		mg/Kg	1	6/10/2022 5:11:05 AM
Surr: 4-Bromofluorobenzene	90.5	70-130		%Rec	1	6/10/2022 5:11:05 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	390	60		mg/Kg	20	6/13/2022 9:21:10 PM

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

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

Analytical Report

Lab Order **2206391**

Date Reported: **6/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-12 4'

Project: Dayton ER Battery

Collection Date: 6/3/2022 12:15:00 PM

Lab ID: 2206391-012

Matrix: SOIL

Received Date: 6/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/10/2022 6:32:21 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/10/2022 6:32:21 PM
Surr: DNOP	93.2	51.1-141		%Rec	1	6/10/2022 6:32:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/10/2022 5:34:35 AM
Surr: BFB	88.6	37.7-212		%Rec	1	6/10/2022 5:34:35 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/10/2022 5:34:35 AM
Toluene	ND	0.048		mg/Kg	1	6/10/2022 5:34:35 AM
Ethylbenzene	ND	0.048		mg/Kg	1	6/10/2022 5:34:35 AM
Xylenes, Total	ND	0.097		mg/Kg	1	6/10/2022 5:34:35 AM
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	6/10/2022 5:34:35 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	500	60		mg/Kg	20	6/13/2022 9:33:36 PM

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

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

Analytical Report

Lab Order **2206391**

Date Reported: **6/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-13 4'

Project: Dayton ER Battery

Collection Date: 6/3/2022 12:20:00 PM

Lab ID: 2206391-013

Matrix: SOIL

Received Date: 6/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/10/2022 6:43:16 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/10/2022 6:43:16 PM
Surr: DNOP	90.6	51.1-141		%Rec	1	6/10/2022 6:43:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/10/2022 5:58:05 AM
Surr: BFB	86.9	37.7-212		%Rec	1	6/10/2022 5:58:05 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/10/2022 5:58:05 AM
Toluene	ND	0.049		mg/Kg	1	6/10/2022 5:58:05 AM
Ethylbenzene	ND	0.049		mg/Kg	1	6/10/2022 5:58:05 AM
Xylenes, Total	ND	0.099		mg/Kg	1	6/10/2022 5:58:05 AM
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	6/10/2022 5:58:05 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	1100	60		mg/Kg	20	6/13/2022 10:10:50 PM

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

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

Analytical Report

Lab Order **2206391**

Date Reported: **6/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-01 4'

Project: Dayton ER Battery

Collection Date: 6/3/2022 12:25:00 PM

Lab ID: 2206391-014

Matrix: SOIL

Received Date: 6/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/10/2022 6:54:07 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/10/2022 6:54:07 PM
Surr: DNOP	78.6	51.1-141		%Rec	1	6/10/2022 6:54:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/10/2022 6:21:39 AM
Surr: BFB	89.3	37.7-212		%Rec	1	6/10/2022 6:21:39 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/10/2022 6:21:39 AM
Toluene	ND	0.049		mg/Kg	1	6/10/2022 6:21:39 AM
Ethylbenzene	ND	0.049		mg/Kg	1	6/10/2022 6:21:39 AM
Xylenes, Total	ND	0.098		mg/Kg	1	6/10/2022 6:21:39 AM
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	6/10/2022 6:21:39 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	470	61		mg/Kg	20	6/13/2022 10:23:15 PM

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

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

Analytical Report

Lab Order **2206391**

Date Reported: **6/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-04 3'

Project: Dayton ER Battery

Collection Date: 6/3/2022 1:15:00 PM

Lab ID: 2206391-015

Matrix: SOIL

Received Date: 6/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	150	14		mg/Kg	1	6/13/2022 2:54:13 PM
Motor Oil Range Organics (MRO)	260	47		mg/Kg	1	6/13/2022 2:54:13 PM
Surr: DNOP	81.0	51.1-141		%Rec	1	6/13/2022 2:54:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/10/2022 6:45:11 AM
Surr: BFB	86.6	37.7-212		%Rec	1	6/10/2022 6:45:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/10/2022 6:45:11 AM
Toluene	ND	0.050		mg/Kg	1	6/10/2022 6:45:11 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/10/2022 6:45:11 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/10/2022 6:45:11 AM
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	6/10/2022 6:45:11 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	11000	600		mg/Kg	200	6/14/2022 6:59:03 PM

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

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

Analytical Report

Lab Order **2206391**

Date Reported: **6/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-05 4'

Project: Dayton ER Battery

Collection Date: 6/3/2022 12:30:00 PM

Lab ID: 2206391-016

Matrix: SOIL

Received Date: 6/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/10/2022 7:15:52 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/10/2022 7:15:52 PM
Surr: DNOP	85.5	51.1-141		%Rec	1	6/10/2022 7:15:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/10/2022 7:08:38 AM
Surr: BFB	85.9	37.7-212		%Rec	1	6/10/2022 7:08:38 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	6/10/2022 7:08:38 AM
Toluene	ND	0.049		mg/Kg	1	6/10/2022 7:08:38 AM
Ethylbenzene	ND	0.049		mg/Kg	1	6/10/2022 7:08:38 AM
Xylenes, Total	ND	0.098		mg/Kg	1	6/10/2022 7:08:38 AM
Surr: 4-Bromofluorobenzene	88.8	70-130		%Rec	1	6/10/2022 7:08:38 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	270	60		mg/Kg	20	6/13/2022 10:48:04 PM

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

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

Analytical Report

Lab Order **2206391**

Date Reported: **6/17/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-06 4'

Project: Dayton ER Battery

Collection Date: 6/3/2022 12:35:00 PM

Lab ID: 2206391-017

Matrix: SOIL

Received Date: 6/8/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	6/10/2022 7:26:44 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/10/2022 7:26:44 PM
Surr: DNOP	80.4	51.1-141		%Rec	1	6/10/2022 7:26:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/10/2022 7:32:06 AM
Surr: BFB	89.5	37.7-212		%Rec	1	6/10/2022 7:32:06 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	6/10/2022 7:32:06 AM
Toluene	ND	0.050		mg/Kg	1	6/10/2022 7:32:06 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/10/2022 7:32:06 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/10/2022 7:32:06 AM
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	6/10/2022 7:32:06 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	870	60		mg/Kg	20	6/13/2022 11:00:28 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206391

17-Jun-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-68070	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68070	RunNo: 88683								
Prep Date: 6/13/2022	Analysis Date: 6/13/2022	SeqNo: 3148891	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68070	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68070	RunNo: 88683								
Prep Date: 6/13/2022	Analysis Date: 6/13/2022	SeqNo: 3148893	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.0	90	110			

Sample ID: MB-68083	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68083	RunNo: 88683								
Prep Date: 6/13/2022	Analysis Date: 6/13/2022	SeqNo: 3148927	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68083	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68083	RunNo: 88683								
Prep Date: 6/13/2022	Analysis Date: 6/13/2022	SeqNo: 3148928	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	99.9	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206391

17-Jun-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-68018	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68018	RunNo: 88655								
Prep Date: 6/9/2022	Analysis Date: 6/10/2022	SeqNo: 3146644	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		99.2	51.1	141			

Sample ID: LCS-68018	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68018	RunNo: 88655								
Prep Date: 6/9/2022	Analysis Date: 6/10/2022	SeqNo: 3146647	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	90.2	64.4	127			
Surr: DNOP	4.2		5.000		84.5	51.1	141			

Sample ID: 2206391-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS22-01 3'	Batch ID: 68018	RunNo: 88655								
Prep Date: 6/9/2022	Analysis Date: 6/10/2022	SeqNo: 3146713	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	110	14	47.26	68.30	89.7	36.1	154			
Surr: DNOP	5.1		4.726		108	51.1	141			

Sample ID: 2206391-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS22-01 3'	Batch ID: 68018	RunNo: 88655								
Prep Date: 6/9/2022	Analysis Date: 6/10/2022	SeqNo: 3146716	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	110	14	47.17	68.30	95.1	36.1	154	2.20	33.9	
Surr: DNOP	5.2		4.717		110	51.1	141	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206391

17-Jun-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2206391-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BS22-01 3'	Batch ID: 67997	RunNo: 88620								
Prep Date: 6/8/2022	Analysis Date: 6/9/2022	SeqNo: 3145306	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	24.83	0	114	70	130			
Surr: BFB	2100		993.0		212	37.7	212			S

Sample ID: 2206391-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BS22-01 3'	Batch ID: 67997	RunNo: 88620								
Prep Date: 6/8/2022	Analysis Date: 6/10/2022	SeqNo: 3145307	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	24.95	0	116	70	130	2.13	20	
Surr: BFB	2100		998.0		211	37.7	212	0	0	

Sample ID: lcs-67997	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 67997	RunNo: 88620								
Prep Date: 6/8/2022	Analysis Date: 6/9/2022	SeqNo: 3145323	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	72.3	137			
Surr: BFB	2000		1000		203	37.7	212			

Sample ID: mb-67997	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 67997	RunNo: 88620								
Prep Date: 6/8/2022	Analysis Date: 6/9/2022	SeqNo: 3145325	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	940		1000		94.2	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206391

17-Jun-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2206391-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS22-02 1'	Batch ID: 67997	RunNo: 88620								
Prep Date: 6/8/2022	Analysis Date: 6/10/2022	SeqNo: 3145350	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9443	0	99.1	68.8	120			
Toluene	0.98	0.047	0.9443	0	104	73.6	124			
Ethylbenzene	1.0	0.047	0.9443	0	106	72.7	129			
Xylenes, Total	3.0	0.094	2.833	0	105	75.7	126			
Surr: 4-Bromofluorobenzene	0.86		0.9443		91.6	70	130			

Sample ID: 2206391-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS22-02 1'	Batch ID: 67997	RunNo: 88620								
Prep Date: 6/8/2022	Analysis Date: 6/10/2022	SeqNo: 3145351	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.024	0.9434	0	89.0	68.8	120	10.9	20	
Toluene	0.88	0.047	0.9434	0	93.5	73.6	124	10.4	20	
Ethylbenzene	0.89	0.047	0.9434	0	93.9	72.7	129	11.7	20	
Xylenes, Total	2.7	0.094	2.830	0	94.1	75.7	126	11.5	20	
Surr: 4-Bromofluorobenzene	0.84		0.9434		89.1	70	130	0	0	

Sample ID: LCS-67997	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 67997	RunNo: 88620								
Prep Date: 6/8/2022	Analysis Date: 6/9/2022	SeqNo: 3145367	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	82.5	80	120			
Toluene	0.86	0.050	1.000	0	86.0	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.0	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.2	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.7	70	130			

Sample ID: mb-67997	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 67997	RunNo: 88620								
Prep Date: 6/8/2022	Analysis Date: 6/9/2022	SeqNo: 3145369	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	0.93		1.000		93.0	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2206391 RcptNo: 1

Received By: Cheyenne Cason 6/8/2022 7:20:00 AM
Completed By: Cheyenne Cason 6/8/2022 9:00:52 AM
Reviewed By: [Signature] 6-8-22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: IO 6/8/22
Adjusted?
Checked by:

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified:
By Whom:
Regarding:
Client Instructions:
Date:
Via: [] eMail [] Phone [] Fax [] In Person

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 1.6, Good, Not Present, , ,

Chain-of-Custody Record

Client: Vertex (EOG)

Mailing Address: on file

Phone #: _____

email or Fax#: _____

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

Accreditation: Az Compliance

NELAC Other _____

EDD (Type) _____

Turn-Around Time: _____

Standard Rush Sloxy

Project Name: Dayton ER Battery

Project #: 22E-00123

Project Manager: Monica Peppin

Sampler: Sally Cartter

On Ice: Yes No

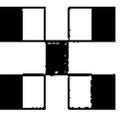
of Coolers: 1

Cooler Temp (including cap): 1.6-0.16 (°C)

Container Type and # 1 4oz jar Preservative Type Ice HEAL No. 2206391

Date	Time	Matrix	Sample Name	Depth
6/13	8:15	Soil	BS22-01	3'
	8:20		BS22-03	1'
	8:25		BS22-04	1'
	13:30		BS22-05	1'
	13:35		BS22-06	1'
	13:50		BS22-07	1'
	8:30		BS22-08	1'
	13:40		BS22-09	1'
	13:45		BS22-10	1'
	8:35		BS22-11	4'
	12:15		BS22-12	4'

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
6/13	5:00	Sally Cartter	Monica Peppin		6/13/22	9:30
6/13	19:00	Monica Peppin	Erica Peppin		6/13/22	07:20



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

<input checked="" type="checkbox"/> BTEX	<input checked="" type="checkbox"/> MTBE / TMB's (8021)
<input checked="" type="checkbox"/> TPH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
<input checked="" type="checkbox"/> Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Remarks:
DIRECT BILL EOG

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

Chain-of-Custody Record

Client: Vertex (EOG)

Mailing Address:

Phone #: on file

email or Fax#:

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other

EDD (Type)

Turn-Around Time:

Standard Rush 5 Days

Project Name:

Dayton ER Battery

Project #:

22E-00123

Project Manager:

Monica Peppin

Sampler: Sally Carttar

On Ice: Yes No

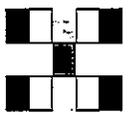
of Coolers: 1

Cooler Temperature (°C): 1.6-0.6

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
10/3	12:20	Sd11	BS22-13	1 409 jar	Ice	013
	12:25		MS22-01			014
	13:15		WS22-04			015
	12:30		MS22-05			016
	12:35		WS22-06			017

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
10/3	5:00	Sally Carttar	Monica Peppin		10/12	0900
10/12	1900	Monica Peppin	Eric Cook	ELSPA 0722		

Analysis Request	Remarks:
<input checked="" type="checkbox"/> BTEX	DIRECT BILL EOG
MTBE / TMB's (8021)	
TPH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
<input checked="" type="checkbox"/> Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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

July 13, 2022

Monica Peppin

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Dayton Battery

OrderNo.: 2207062

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/2/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2207062**

Date Reported: 7/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-09 0'

Project: Dayton Battery

Collection Date: 6/29/2022 1:30:00 PM

Lab ID: 2207062-001

Matrix: SOIL

Received Date: 7/2/2022 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/11/2022 5:11:39 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/11/2022 5:11:39 PM
Surr: DNOP	98.5	51.1-141		%Rec	1	7/11/2022 5:11:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/7/2022 4:17:42 AM
Surr: BFB	101	37.7-212		%Rec	1	7/7/2022 4:17:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/7/2022 4:17:42 AM
Toluene	ND	0.050		mg/Kg	1	7/7/2022 4:17:42 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/7/2022 4:17:42 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/7/2022 4:17:42 AM
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	7/7/2022 4:17:42 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/10/2022 12:16:38 PM

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

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

Analytical Report

Lab Order **2207062**

Date Reported: 7/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-09 2'

Project: Dayton Battery

Collection Date: 6/29/2022 1:35:00 PM

Lab ID: 2207062-002

Matrix: SOIL

Received Date: 7/2/2022 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/11/2022 5:26:21 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/11/2022 5:26:21 PM
Surr: DNOP	110	51.1-141		%Rec	1	7/11/2022 5:26:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/7/2022 4:41:07 AM
Surr: BFB	96.6	37.7-212		%Rec	1	7/7/2022 4:41:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/7/2022 4:41:07 AM
Toluene	ND	0.049		mg/Kg	1	7/7/2022 4:41:07 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/7/2022 4:41:07 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/7/2022 4:41:07 AM
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	7/7/2022 4:41:07 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	1300	60		mg/Kg	20	7/10/2022 1:18:40 PM

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

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

Analytical Report

Lab Order **2207062**

Date Reported: **7/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-10 0'

Project: Dayton Battery

Collection Date: 6/29/2022 1:40:00 PM

Lab ID: 2207062-003

Matrix: SOIL

Received Date: 7/2/2022 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/12/2022 1:16:48 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/12/2022 1:16:48 PM
Surr: DNOP	92.3	51.1-141		%Rec	1	7/12/2022 1:16:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/7/2022 5:04:30 AM
Surr: BFB	91.7	37.7-212		%Rec	1	7/7/2022 5:04:30 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/7/2022 5:04:30 AM
Toluene	ND	0.049		mg/Kg	1	7/7/2022 5:04:30 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/7/2022 5:04:30 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/7/2022 5:04:30 AM
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	7/7/2022 5:04:30 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	4400	150		mg/Kg	50	7/11/2022 10:02:49 AM

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

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

Analytical Report

Lab Order **2207062**

Date Reported: 7/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-10 2'

Project: Dayton Battery

Collection Date: 6/29/2022 1:45:00 PM

Lab ID: 2207062-004

Matrix: SOIL

Received Date: 7/2/2022 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/11/2022 5:40:55 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/11/2022 5:40:55 PM
Surr: DNOP	81.3	51.1-141		%Rec	1	7/11/2022 5:40:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/7/2022 10:20:33 AM
Surr: BFB	99.1	37.7-212		%Rec	1	7/7/2022 10:20:33 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/9/2022 4:04:00 AM
Toluene	ND	0.049		mg/Kg	1	7/9/2022 4:04:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/9/2022 4:04:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/9/2022 4:04:00 AM
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	1	7/9/2022 4:04:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	2200	150		mg/Kg	50	7/11/2022 10:15:13 AM

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

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

Analytical Report

Lab Order **2207062**

Date Reported: **7/13/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-11 0'

Project: Dayton Battery

Collection Date: 6/29/2022 1:50:00 PM

Lab ID: 2207062-005

Matrix: SOIL

Received Date: 7/2/2022 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/12/2022 1:41:30 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/12/2022 1:41:30 PM
Surr: DNOP	121	51.1-141		%Rec	1	7/12/2022 1:41:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/7/2022 11:31:15 AM
Surr: BFB	95.7	37.7-212		%Rec	1	7/7/2022 11:31:15 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/7/2022 11:31:15 AM
Toluene	ND	0.049		mg/Kg	1	7/7/2022 11:31:15 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/7/2022 11:31:15 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/7/2022 11:31:15 AM
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	7/7/2022 11:31:15 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/10/2022 1:55:53 PM

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

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

Analytical Report

Lab Order **2207062**

Date Reported: 7/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-11 2'

Project: Dayton Battery

Collection Date: 6/29/2022 1:55:00 PM

Lab ID: 2207062-006

Matrix: SOIL

Received Date: 7/2/2022 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/11/2022 5:55:07 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/11/2022 5:55:07 PM
Surr: DNOP	61.5	51.1-141		%Rec	1	7/11/2022 5:55:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/7/2022 12:41:53 PM
Surr: BFB	96.0	37.7-212		%Rec	1	7/7/2022 12:41:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/7/2022 12:41:53 PM
Toluene	ND	0.050		mg/Kg	1	7/7/2022 12:41:53 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/7/2022 12:41:53 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/7/2022 12:41:53 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/7/2022 12:41:53 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	120	60		mg/Kg	20	7/10/2022 2:08:17 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2207062

13-Jul-22

Client: Vertex Resources Services, Inc.

Project: Dayton Battery

Sample ID: MB-68654	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68654	RunNo: 89355								
Prep Date: 7/8/2022	Analysis Date: 7/10/2022	SeqNo: 3178511	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68654	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68654	RunNo: 89355								
Prep Date: 7/8/2022	Analysis Date: 7/10/2022	SeqNo: 3178512	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.2	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 range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2207062

13-Jul-22

Client: Vertex Resources Services, Inc.

Project: Dayton Battery

Sample ID: MB-68594	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68594	RunNo: 89368								
Prep Date: 7/6/2022	Analysis Date: 7/11/2022	SeqNo: 3180208	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		120	51.1	141			

Sample ID: LCS-68594	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68594	RunNo: 89368								
Prep Date: 7/6/2022	Analysis Date: 7/11/2022	SeqNo: 3180209	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	15	50.00	0	109	64.4	127			
Surr: DNOP	5.9		5.000		118	51.1	141			

Sample ID: MB-68675	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68675	RunNo: 89401								
Prep Date: 7/11/2022	Analysis Date: 7/12/2022	SeqNo: 3180414	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.6		10.00		96.2	51.1	141			

Sample ID: LCS-68675	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68675	RunNo: 89401								
Prep Date: 7/11/2022	Analysis Date: 7/12/2022	SeqNo: 3180415	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		96.3	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2207062

13-Jul-22

Client: Vertex Resources Services, Inc.

Project: Dayton Battery

Sample ID: mb-68555	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 68555		RunNo: 89271							
Prep Date: 7/5/2022	Analysis Date: 7/6/2022		SeqNo: 3174484		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	960		1000		95.5	37.7	212			

Sample ID: lcs-68555	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 68555		RunNo: 89271							
Prep Date: 7/5/2022	Analysis Date: 7/6/2022		SeqNo: 3174485		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	114	72.3	137			
Surr: BFB	2200		1000		215	37.7	212			S

Sample ID: mb-68568	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 68568		RunNo: 89311							
Prep Date: 7/6/2022	Analysis Date: 7/7/2022		SeqNo: 3176168		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	950		1000		95.0	37.7	212			

Sample ID: lcs-68568	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 68568		RunNo: 89311							
Prep Date: 7/6/2022	Analysis Date: 7/7/2022		SeqNo: 3176169		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	72.3	137			
Surr: BFB	2100		1000		211	37.7	212			

Sample ID: 2207062-004ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH22-10 2'	Batch ID: 68568		RunNo: 89311							
Prep Date: 7/6/2022	Analysis Date: 7/7/2022		SeqNo: 3176171		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.9	24.65	0	116	70	130			
Surr: BFB	2200		986.2		221	37.7	212			S

Sample ID: 2207062-004amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH22-10 2'	Batch ID: 68568		RunNo: 89311							
Prep Date: 7/6/2022	Analysis Date: 7/7/2022		SeqNo: 3176172		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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2207062

13-Jul-22

Client: Vertex Resources Services, Inc.

Project: Dayton Battery

Sample ID: 2207062-004amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-10 2'	Batch ID: 68568	RunNo: 89311								
Prep Date: 7/6/2022	Analysis Date: 7/7/2022	SeqNo: 3176172 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	24.78	0	119	70	130	3.11	20	
Surr: BFB	2200		991.1		226	37.7	212	0	0	S

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2207062

13-Jul-22

Client: Vertex Resources Services, Inc.

Project: Dayton Battery

Sample ID: mb-68555	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 68555	RunNo: 89271								
Prep Date: 7/5/2022	Analysis Date: 7/6/2022	SeqNo: 3174523	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.7	70	130			

Sample ID: LCS-68555	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 68555	RunNo: 89271								
Prep Date: 7/5/2022	Analysis Date: 7/6/2022	SeqNo: 3174524	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.0	80	120			
Toluene	0.94	0.050	1.000	0	93.7	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.1	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.6	70	130			

Sample ID: mb-68568	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 68568	RunNo: 89311								
Prep Date: 7/6/2022	Analysis Date: 7/7/2022	SeqNo: 3176213	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	70	130			

Sample ID: LCS-68568	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 68568	RunNo: 89311								
Prep Date: 7/6/2022	Analysis Date: 7/7/2022	SeqNo: 3176214	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.2	80	120			
Toluene	0.97	0.050	1.000	0	97.1	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2207062

13-Jul-22

Client: Vertex Resources Services, Inc.

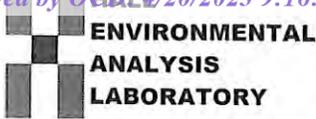
Project: Dayton Battery

Sample ID: 2207062-005ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-11 0'	Batch ID: 68568	RunNo: 89311								
Prep Date: 7/6/2022	Analysis Date: 7/7/2022	SeqNo: 3176217	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9747	0.01389	103	68.8	120			
Toluene	1.1	0.049	0.9747	0	109	73.6	124			
Ethylbenzene	1.1	0.049	0.9747	0	111	72.7	129			
Xylenes, Total	3.3	0.097	2.924	0	112	75.7	126			
Surr: 4-Bromofluorobenzene	0.97		0.9747		99.0	70	130			

Sample ID: 2207062-005amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-11 0'	Batch ID: 68568	RunNo: 89311								
Prep Date: 7/6/2022	Analysis Date: 7/7/2022	SeqNo: 3176218	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9785	0.01389	101	68.8	120	0.885	20	
Toluene	1.1	0.049	0.9785	0	109	73.6	124	0.0322	20	
Ethylbenzene	1.1	0.049	0.9785	0	112	72.7	129	0.498	20	
Xylenes, Total	3.3	0.098	2.935	0	112	75.7	126	0.900	20	
Surr: 4-Bromofluorobenzene	1.0		0.9785		102	70	130	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Sample Log-In Check List

Client Name: **Vertex Resources Services, Inc.**

Work Order Number: **2207062**

RcptNo: 1

Received By: **Andy Freeman** 7/2/2022 9:35:00 AM

Completed By: **Cheyenne Cason** 7/5/2022 7:48:18 AM

Reviewed By: **SCL 7/5/22**

Andy Freeman
Cheyenne Cason

Chain of Custody

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

Log In

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

of preserved bottles checked for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *JM 7/5/22*

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Not Present			
2	4.5	Good	Not Present			



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

September 20, 2022

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Dayton ER Battery

OrderNo.: 2209552

Dear Michael Moffitt:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/13/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2209552**

Date Reported: **9/20/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-07 0-4'

Project: Dayton ER Battery

Collection Date: 9/9/2022 10:15:00 AM

Lab ID: 2209552-001

Matrix: SOIL

Received Date: 9/13/2022 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/14/2022 10:55:37 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/14/2022 10:55:37 PM
Surr: DNOP	78.5	21-129		%Rec	1	9/14/2022 10:55:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/14/2022 3:13:33 PM
Surr: BFB	94.6	37.7-212		%Rec	1	9/14/2022 3:13:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/14/2022 3:13:33 PM
Toluene	ND	0.047		mg/Kg	1	9/14/2022 3:13:33 PM
Ethylbenzene	ND	0.047		mg/Kg	1	9/14/2022 3:13:33 PM
Xylenes, Total	ND	0.094		mg/Kg	1	9/14/2022 3:13:33 PM
Surr: 4-Bromofluorobenzene	89.2	70-130		%Rec	1	9/14/2022 3:13:33 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	410	60		mg/Kg	20	9/14/2022 3:08:47 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209552

20-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-70171	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 70171	RunNo: 91019								
Prep Date: 9/14/2022	Analysis Date: 9/14/2022	SeqNo: 3256416	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70171	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 70171	RunNo: 91019								
Prep Date: 9/14/2022	Analysis Date: 9/14/2022	SeqNo: 3256417	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209552

20-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-70160	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 70160		RunNo: 91028							
Prep Date: 9/13/2022	Analysis Date: 9/14/2022		SeqNo: 3255495				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.4		5.000		68.7	21	129			

Sample ID: LCS-70166	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 70166		RunNo: 91028							
Prep Date: 9/14/2022	Analysis Date: 9/14/2022		SeqNo: 3255496				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.000		103	21	129			

Sample ID: MB-70160	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 70160		RunNo: 91028							
Prep Date: 9/13/2022	Analysis Date: 9/14/2022		SeqNo: 3255498				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.5		10.00		85.5	21	129			

Sample ID: MB-70166	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 70166		RunNo: 91028							
Prep Date: 9/14/2022	Analysis Date: 9/14/2022		SeqNo: 3255499				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.0		10.00		80.4	21	129			

Sample ID: LCS-70150	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 70150		RunNo: 91028							
Prep Date: 9/13/2022	Analysis Date: 9/14/2022		SeqNo: 3256968				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	15	50.00	0	75.6	64.4	127			
Surr: DNOP	2.4		5.000		48.9	21	129			

Sample ID: LCS-70156	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 70156		RunNo: 91028							
Prep Date: 9/13/2022	Analysis Date: 9/15/2022		SeqNo: 3256969				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		84.0	21	129			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209552

20-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-70150	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 70150		RunNo: 91028							
Prep Date: 9/13/2022	Analysis Date: 9/14/2022		SeqNo: 3256974		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	6.7		10.00		67.4	21	129			

Sample ID: MB-70156	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 70156		RunNo: 91028							
Prep Date: 9/13/2022	Analysis Date: 9/15/2022		SeqNo: 3256975		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.3		10.00		83.3	21	129			

Sample ID: 2209552-001AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: WS22-07 0-4'	Batch ID: 70150		RunNo: 91028							
Prep Date: 9/13/2022	Analysis Date: 9/14/2022		SeqNo: 3257595		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	14	45.70	0	79.9	36.1	154			
Surr: DNOP	2.3		4.570		50.3	21	129			

Sample ID: 2209552-001AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: WS22-07 0-4'	Batch ID: 70150		RunNo: 91028							
Prep Date: 9/13/2022	Analysis Date: 9/14/2022		SeqNo: 3257597		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	14	48.08	0	84.8	36.1	154	11.0	33.9	
Surr: DNOP	3.0		4.808		61.7	21	129	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209552

20-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: G91017		RunNo: 91017							
Prep Date:	Analysis Date: 9/14/2022		SeqNo: 3255829		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	930		1000		92.5	37.7	212			

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: G91017		RunNo: 91017							
Prep Date:	Analysis Date: 9/14/2022		SeqNo: 3255830		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1900		1000		186	37.7	212			

Sample ID: mb-70138	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 70138		RunNo: 91017							
Prep Date: 9/13/2022	Analysis Date: 9/14/2022		SeqNo: 3255835		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	900		1000		90.2	37.7	212			

Sample ID: lcs-70138	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 70138		RunNo: 91017							
Prep Date: 9/13/2022	Analysis Date: 9/14/2022		SeqNo: 3255836		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.0	72.3	137			
Surr: BFB	1900		1000		190	37.7	212			

Sample ID: 2209552-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WS22-07 0-4'	Batch ID: 70138		RunNo: 91017							
Prep Date: 9/13/2022	Analysis Date: 9/14/2022		SeqNo: 3255840		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.7	23.67	0	116	70	130			
Surr: BFB	2000		947.0		208	37.7	212			

Sample ID: 2209552-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WS22-07 0-4'	Batch ID: 70138		RunNo: 91017							
Prep Date: 9/13/2022	Analysis Date: 9/14/2022		SeqNo: 3255841		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.7	23.58	0	111	70	130	4.15	20	
Surr: BFB	1900		943.4		204	37.7	212	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209552

20-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: B91017		RunNo: 91017							
Prep Date:	Analysis Date: 9/14/2022		SeqNo: 3255864		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.87		1.000		86.8	70	130			

Sample ID: 100ng btex lcs	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: B91017		RunNo: 91017							
Prep Date:	Analysis Date: 9/14/2022		SeqNo: 3255865		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		87.9	70	130			

Sample ID: mb-70138	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 70138		RunNo: 91017							
Prep Date: 9/13/2022	Analysis Date: 9/14/2022		SeqNo: 3255870		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	0.86		1.000		86.4	70	130			

Sample ID: LCS-70138	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 70138		RunNo: 91017							
Prep Date: 9/13/2022	Analysis Date: 9/14/2022		SeqNo: 3255871		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.2	80	120			
Toluene	0.88	0.050	1.000	0	88.0	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.2	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.8	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.5	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2209552 RcptNo: 1

Received By: Cheyenne Cason 9/13/2022 7:50:00 AM [Signature]

Completed By: Cheyenne Cason 9/13/2022 8:16:15 AM [Signature]

Reviewed By: SGL 9/13/22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH:
(<2 or >12 unless noted)
Adjusted?
Checked by: JN 9/13/22

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 2 rows of data.



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

September 26, 2022

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

RE: Dayton ER Battery

OrderNo.: 2209623

Dear Michael Moffitt:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/14/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2209623**

Date Reported: **9/26/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-05 0-4'

Project: Dayton ER Battery

Collection Date: 9/12/2022 10:15:00 AM

Lab ID: 2209623-001

Matrix: SOIL

Received Date: 9/14/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	410	28		mg/Kg	2	9/16/2022 4:01:35 PM
Motor Oil Range Organics (MRO)	990	94		mg/Kg	2	9/16/2022 4:01:35 PM
Surr: DNOP	74.6	21-129		%Rec	2	9/16/2022 4:01:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/15/2022 7:13:20 PM
Surr: BFB	87.2	37.7-212		%Rec	1	9/15/2022 7:13:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/15/2022 7:13:20 PM
Toluene	ND	0.048		mg/Kg	1	9/15/2022 7:13:20 PM
Ethylbenzene	ND	0.048		mg/Kg	1	9/15/2022 7:13:20 PM
Xylenes, Total	ND	0.097		mg/Kg	1	9/15/2022 7:13:20 PM
Surr: 4-Bromofluorobenzene	83.6	70-130		%Rec	1	9/15/2022 7:13:20 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	7200	300		mg/Kg	100	9/16/2022 10:04:31 AM

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

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

Analytical Report

Lab Order **2209623**

Date Reported: **9/26/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-07 0-2.5'

Project: Dayton ER Battery

Collection Date: 9/12/2022 11:30:00 AM

Lab ID: 2209623-002

Matrix: SOIL

Received Date: 9/14/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	280	29		mg/Kg	2	9/16/2022 12:20:45 PM
Motor Oil Range Organics (MRO)	700	98		mg/Kg	2	9/16/2022 12:20:45 PM
Surr: DNOP	76.1	21-129		%Rec	2	9/16/2022 12:20:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/15/2022 7:36:47 PM
Surr: BFB	89.4	37.7-212		%Rec	1	9/15/2022 7:36:47 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/15/2022 7:36:47 PM
Toluene	ND	0.049		mg/Kg	1	9/15/2022 7:36:47 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/15/2022 7:36:47 PM
Xylenes, Total	ND	0.098		mg/Kg	1	9/15/2022 7:36:47 PM
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	9/15/2022 7:36:47 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	6600	300		mg/Kg	100	9/16/2022 10:16:52 AM

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

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

Analytical Report

Lab Order **2209623**

Date Reported: **9/26/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-08 0-4'

Project: Dayton ER Battery

Collection Date: 9/12/2022 1:10:00 PM

Lab ID: 2209623-003

Matrix: SOIL

Received Date: 9/14/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/15/2022 8:37:48 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/15/2022 8:37:48 PM
Surr: DNOP	81.8	21-129		%Rec	1	9/15/2022 8:37:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/15/2022 8:00:20 PM
Surr: BFB	89.0	37.7-212		%Rec	1	9/15/2022 8:00:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/15/2022 8:00:20 PM
Toluene	ND	0.049		mg/Kg	1	9/15/2022 8:00:20 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/15/2022 8:00:20 PM
Xylenes, Total	ND	0.098		mg/Kg	1	9/15/2022 8:00:20 PM
Surr: 4-Bromofluorobenzene	86.4	70-130		%Rec	1	9/15/2022 8:00:20 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	2800	150		mg/Kg	50	9/16/2022 10:29:13 AM

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

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

Analytical Report

Lab Order **2209623**

Date Reported: **9/26/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-09 0-4'

Project: Dayton ER Battery

Collection Date: 9/12/2022 1:15:00 PM

Lab ID: 2209623-004

Matrix: SOIL

Received Date: 9/14/2022 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/15/2022 8:48:39 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/15/2022 8:48:39 PM
Surr: DNOP	91.4	21-129		%Rec	1	9/15/2022 8:48:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/15/2022 8:23:42 PM
Surr: BFB	90.1	37.7-212		%Rec	1	9/15/2022 8:23:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	9/15/2022 8:23:42 PM
Toluene	ND	0.047		mg/Kg	1	9/15/2022 8:23:42 PM
Ethylbenzene	ND	0.047		mg/Kg	1	9/15/2022 8:23:42 PM
Xylenes, Total	ND	0.093		mg/Kg	1	9/15/2022 8:23:42 PM
Surr: 4-Bromofluorobenzene	86.5	70-130		%Rec	1	9/15/2022 8:23:42 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	2300	60		mg/Kg	20	9/16/2022 1:06:03 AM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209623

27-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-70206	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 70206	RunNo: 91077								
Prep Date: 9/15/2022	Analysis Date: 9/15/2022	SeqNo: 3257492	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70206	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 70206	RunNo: 91077								
Prep Date: 9/15/2022	Analysis Date: 9/15/2022	SeqNo: 3257493	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.6	90	110			

Sample ID: MB-70196	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 70196	RunNo: 91056								
Prep Date: 9/15/2022	Analysis Date: 9/15/2022	SeqNo: 3258074	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70196	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 70196	RunNo: 91056								
Prep Date: 9/15/2022	Analysis Date: 9/15/2022	SeqNo: 3258075	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.3	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209623

27-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-70180	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 70180	RunNo: 91028								
Prep Date: 9/14/2022	Analysis Date: 9/15/2022	SeqNo: 3256970	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	15	50.00	0	71.4	64.4	127			
Surr: DNOP	3.0		5.000		59.2	21	129			

Sample ID: MB-70180	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 70180	RunNo: 91028								
Prep Date: 9/14/2022	Analysis Date: 9/15/2022	SeqNo: 3256976	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	6.9		10.00		69.3	21	129			

Sample ID: 2209623-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP22-05 0-4'	Batch ID: 70180	RunNo: 91092								
Prep Date: 9/14/2022	Analysis Date: 9/16/2022	SeqNo: 3260235	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	270	27	44.29	413.2	-321	36.1	154			S
Surr: DNOP	2.6		4.429		57.6	21	129			

Sample ID: 2209623-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: TP22-05 0-4'	Batch ID: 70180	RunNo: 91092								
Prep Date: 9/14/2022	Analysis Date: 9/16/2022	SeqNo: 3260236	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	260	30	49.50	413.2	-302	36.1	154	2.64	33.9	S
Surr: DNOP	2.8		4.950		56.3	21	129	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209623

27-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: mb-70178	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 70178	RunNo: 91053								
Prep Date: 9/14/2022	Analysis Date: 9/15/2022	SeqNo: 3257265	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	920		1000		91.6	37.7	212			

Sample ID: ics-70178	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 70178	RunNo: 91053								
Prep Date: 9/14/2022	Analysis Date: 9/15/2022	SeqNo: 3257266	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	72.3	137			
Surr: BFB	1900		1000		189	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209623

27-Sep-22

Client: Vertex Resources Services, Inc.

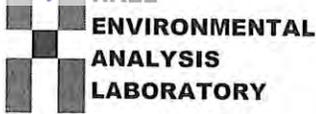
Project: Dayton ER Battery

Sample ID: mb-70178	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 70178	RunNo: 91053								
Prep Date: 9/14/2022	Analysis Date: 9/15/2022	SeqNo: 3257346	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	0.90		1.000		89.7	70	130			

Sample ID: LCS-70178	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 70178	RunNo: 91053								
Prep Date: 9/14/2022	Analysis Date: 9/15/2022	SeqNo: 3257347	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.2	80	120			
Toluene	0.92	0.050	1.000	0	92.1	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.5	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.5	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.1	70	130			

Qualifiers:

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



Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2209623 RcptNo: 1

Received By: Tracy Casarrubias 9/14/2022 7:40:00 AM

Completed By: Tracy Casarrubias 9/14/2022 8:30:04 AM

Reviewed By: *J 9-14-22*

Chain of Custody

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

Log In

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

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

Adjusted?

Checked by: *TC 9/14/22*

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.9	Good	Yes			
2	0.8	Good	Yes			



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

September 21, 2022

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

RE: Dayton ER Battery

OrderNo.: 2209814

Dear Michael Moffitt:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/16/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2209814**

Date Reported: **9/21/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-20 0-4'

Project: Dayton ER Battery

Collection Date: 9/14/2022 10:00:00 AM

Lab ID: 2209814-001

Matrix: SOIL

Received Date: 9/16/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	9/19/2022 3:05:09 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/19/2022 3:05:09 PM
Surr: DNOP	81.7	21-129		%Rec	1	9/19/2022 3:05:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/19/2022 12:34:20 PM
Surr: BFB	100	37.7-212		%Rec	1	9/19/2022 12:34:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/19/2022 12:34:20 PM
Toluene	ND	0.049		mg/Kg	1	9/19/2022 12:34:20 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/19/2022 12:34:20 PM
Xylenes, Total	ND	0.098		mg/Kg	1	9/19/2022 12:34:20 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/19/2022 12:34:20 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	800	60		mg/Kg	20	9/19/2022 4:30:15 PM

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

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

Analytical Report

Lab Order **2209814**

Date Reported: **9/21/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-22 0-4'

Project: Dayton ER Battery

Collection Date: 9/14/2022 2:00:00 PM

Lab ID: 2209814-002

Matrix: SOIL

Received Date: 9/16/2022 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	9/19/2022 3:15:54 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/19/2022 3:15:54 PM
Surr: DNOP	88.9	21-129		%Rec	1	9/19/2022 3:15:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/19/2022 1:45:09 PM
Surr: BFB	100	37.7-212		%Rec	1	9/19/2022 1:45:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/19/2022 1:45:09 PM
Toluene	ND	0.050		mg/Kg	1	9/19/2022 1:45:09 PM
Ethylbenzene	ND	0.050		mg/Kg	1	9/19/2022 1:45:09 PM
Xylenes, Total	ND	0.099		mg/Kg	1	9/19/2022 1:45:09 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	9/19/2022 1:45:09 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	1400	60		mg/Kg	20	9/19/2022 4:42:39 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209814

21-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-70272	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 70272	RunNo: 91150								
Prep Date: 9/19/2022	Analysis Date: 9/19/2022	SeqNo: 3261347	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-70272	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 70272	RunNo: 91150								
Prep Date: 9/19/2022	Analysis Date: 9/19/2022	SeqNo: 3261348	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209814

21-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-70248	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 70248	RunNo: 91130								
Prep Date: 9/19/2022	Analysis Date: 9/19/2022	SeqNo: 3260207	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	15	50.00	0	77.3	64.4	127			
Surr: DNOP	3.7		5.000		73.9	21	129			

Sample ID: MB-70248	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 70248	RunNo: 91130								
Prep Date: 9/19/2022	Analysis Date: 9/19/2022	SeqNo: 3260209	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.6		10.00		86.1	21	129			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209814

21-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: mb-70234	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 70234		RunNo: 91122							
Prep Date: 9/16/2022	Analysis Date: 9/19/2022		SeqNo: 3260359		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	37.7	212			

Sample ID: lcs-70234	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 70234		RunNo: 91122							
Prep Date: 9/16/2022	Analysis Date: 9/19/2022		SeqNo: 3260360		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	72.3	137			
Surr: BFB	2000		1000		201	37.7	212			

Sample ID: 2209814-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: TP22-20 0-4'	Batch ID: 70234		RunNo: 91122							
Prep Date: 9/16/2022	Analysis Date: 9/19/2022		SeqNo: 3260362		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.58	0	111	70	130			
Surr: BFB	2100		983.3		209	37.7	212			

Sample ID: 2209814-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: TP22-20 0-4'	Batch ID: 70234		RunNo: 91122							
Prep Date: 9/16/2022	Analysis Date: 9/19/2022		SeqNo: 3260363		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	24.80	0	103	70	130	7.45	20	
Surr: BFB	2000		992.1		204	37.7	212	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2209814

21-Sep-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: mb-70234	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 70234		RunNo: 91122							
Prep Date: 9/16/2022	Analysis Date: 9/19/2022		SeqNo: 3260369		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	70	130			

Sample ID: LCS-70234	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 70234		RunNo: 91122							
Prep Date: 9/16/2022	Analysis Date: 9/19/2022		SeqNo: 3260370		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	91.5	80	120			
Toluene	0.95	0.050	1.000	0	95.5	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: 2209814-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: TP22-22 0-4'	Batch ID: 70234		RunNo: 91122							
Prep Date: 9/16/2022	Analysis Date: 9/19/2022		SeqNo: 3260373		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.2	68.8	120			
Toluene	0.94	0.050	1.000	0	94.5	73.6	124			
Ethylbenzene	0.96	0.050	1.000	0	95.9	72.7	129			
Xylenes, Total	2.9	0.10	3.000	0	96.9	75.7	126			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: 2209814-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: TP22-22 0-4'	Batch ID: 70234		RunNo: 91122							
Prep Date: 9/16/2022	Analysis Date: 9/19/2022		SeqNo: 3260374		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	0.9940	0	83.9	68.8	120	6.74	20	
Toluene	0.88	0.050	0.9940	0	89.0	73.6	124	6.55	20	
Ethylbenzene	0.90	0.050	0.9940	0	90.5	72.7	129	6.40	20	
Xylenes, Total	2.7	0.099	2.982	0	91.6	75.7	126	6.29	20	
Surr: 4-Bromofluorobenzene	1.0		0.9940		103	70	130	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Sample Log-In Check List

Client Name: **Vertex Resources Services, Inc.**

Work Order Number: **2209814**

RcptNo: **1**

Received By: **Joseph Alderette** 9/16/2022 7:45:00 AM

Completed By: **Cheyenne Cason** 9/16/2022 8:09:36 AM

Reviewed By: *JS 9-16-22*

Handwritten initials/signature

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: *JS 9/16/22*

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.3	Good	Not Present			



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

November 09, 2022

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Dayton ER Battery

OrderNo.: 2211151

Dear Michael Moffitt:

Hall Environmental Analysis Laboratory received 4 sample(s) on 11/3/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2211151**

Date Reported: **11/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-31 2'

Project: Dayton ER Battery

Collection Date: 11/1/2022 12:00:00 PM

Lab ID: 2211151-001

Matrix: SOIL

Received Date: 11/3/2022 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	15		mg/Kg	1	11/4/2022 8:37:51 PM
Motor Oil Range Organics (MRO)	59	50		mg/Kg	1	11/4/2022 8:37:51 PM
Surr: DNOP	101	21-129		%Rec	1	11/4/2022 8:37:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/4/2022 8:06:31 AM
Surr: BFB	88.8	37.7-212		%Rec	1	11/4/2022 8:06:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/4/2022 8:06:31 AM
Toluene	ND	0.048		mg/Kg	1	11/4/2022 8:06:31 AM
Ethylbenzene	ND	0.048		mg/Kg	1	11/4/2022 8:06:31 AM
Xylenes, Total	ND	0.097		mg/Kg	1	11/4/2022 8:06:31 AM
Surr: 4-Bromofluorobenzene	89.3	70-130		%Rec	1	11/4/2022 8:06:31 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	970	60		mg/Kg	20	11/4/2022 12:57:21 PM

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

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

Analytical Report

Lab Order 2211151

Date Reported: 11/9/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-31 4'

Project: Dayton ER Battery

Collection Date: 11/1/2022 12:15:00 PM

Lab ID: 2211151-002

Matrix: SOIL

Received Date: 11/3/2022 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	15		mg/Kg	1	11/4/2022 8:58:40 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/4/2022 8:58:40 PM
Surr: DNOP	108	21-129		%Rec	1	11/4/2022 8:58:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/4/2022 9:17:16 AM
Surr: BFB	90.2	37.7-212		%Rec	1	11/4/2022 9:17:16 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	11/4/2022 9:17:16 AM
Toluene	ND	0.050		mg/Kg	1	11/4/2022 9:17:16 AM
Ethylbenzene	ND	0.050		mg/Kg	1	11/4/2022 9:17:16 AM
Xylenes, Total	ND	0.099		mg/Kg	1	11/4/2022 9:17:16 AM
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	11/4/2022 9:17:16 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	1300	60		mg/Kg	20	11/4/2022 1:09:45 PM

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

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

Analytical Report

Lab Order **2211151**

Date Reported: **11/9/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-32 2'

Project: Dayton ER Battery

Collection Date: 11/1/2022 12:30:00 PM

Lab ID: 2211151-003

Matrix: SOIL

Received Date: 11/3/2022 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	14		mg/Kg	1	11/4/2022 9:09:05 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/4/2022 9:09:05 PM
Surr: DNOP	112	21-129		%Rec	1	11/4/2022 9:09:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/4/2022 10:28:11 AM
Surr: BFB	88.6	37.7-212		%Rec	1	11/4/2022 10:28:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/4/2022 10:28:11 AM
Toluene	ND	0.047		mg/Kg	1	11/4/2022 10:28:11 AM
Ethylbenzene	ND	0.047		mg/Kg	1	11/4/2022 10:28:11 AM
Xylenes, Total	ND	0.095		mg/Kg	1	11/4/2022 10:28:11 AM
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	11/4/2022 10:28:11 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	2300	150		mg/Kg	50	11/7/2022 10:13:57 AM

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

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

Analytical Report

Lab Order 2211151

Date Reported: 11/9/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: TP22-32 4'

Project: Dayton ER Battery

Collection Date: 11/1/2022 12:45:00 PM

Lab ID: 2211151-004

Matrix: SOIL

Received Date: 11/3/2022 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	14		mg/Kg	1	11/4/2022 9:19:28 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/4/2022 9:19:28 PM
Surr: DNOP	125	21-129		%Rec	1	11/4/2022 9:19:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/4/2022 10:51:52 AM
Surr: BFB	87.9	37.7-212		%Rec	1	11/4/2022 10:51:52 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/4/2022 10:51:52 AM
Toluene	ND	0.049		mg/Kg	1	11/4/2022 10:51:52 AM
Ethylbenzene	ND	0.049		mg/Kg	1	11/4/2022 10:51:52 AM
Xylenes, Total	ND	0.098		mg/Kg	1	11/4/2022 10:51:52 AM
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	11/4/2022 10:51:52 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	1900	60		mg/Kg	20	11/4/2022 1:34:33 PM

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211151

09-Nov-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-71297	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 71297	RunNo: 92365								
Prep Date: 11/4/2022	Analysis Date: 11/4/2022	SeqNo: 3319379	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-71297	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 71297	RunNo: 92365								
Prep Date: 11/4/2022	Analysis Date: 11/4/2022	SeqNo: 3319380	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.6	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211151

09-Nov-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-71279	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 71279		RunNo: 92341							
Prep Date: 11/3/2022	Analysis Date: 11/4/2022		SeqNo: 3319787		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	15	50.00	0	86.8	64.4	127			
Surr: DNOP	4.1		5.000		81.5	21	129			

Sample ID: MB-71279	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 71279		RunNo: 92341							
Prep Date: 11/3/2022	Analysis Date: 11/4/2022		SeqNo: 3319789		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.1		10.00		81.4	21	129			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211151

09-Nov-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: mb-71269	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 71269		RunNo: 92355							
Prep Date: 11/3/2022	Analysis Date: 11/4/2022		SeqNo: 3318894	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	860		1000		86.4	37.7	212			

Sample ID: lcs-71269	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 71269		RunNo: 92355							
Prep Date: 11/3/2022	Analysis Date: 11/4/2022		SeqNo: 3318895	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.4	72.3	137			
Surr: BFB	1800		1000		183	37.7	212			

Sample ID: 2211151-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: TP22-31 2'	Batch ID: 71269		RunNo: 92355							
Prep Date: 11/3/2022	Analysis Date: 11/4/2022		SeqNo: 3318897	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	23.97	0	105	70	130			
Surr: BFB	1800		958.8		192	37.7	212			

Sample ID: 2211151-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: TP22-31 2'	Batch ID: 71269		RunNo: 92355							
Prep Date: 11/3/2022	Analysis Date: 11/4/2022		SeqNo: 3318898	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.32	0	107	70	130	3.26	20	
Surr: BFB	1900		972.8		197	37.7	212	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2211151

09-Nov-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: mb-71269	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 71269	RunNo: 92355								
Prep Date: 11/3/2022	Analysis Date: 11/4/2022	SeqNo: 3318947			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	0.91		1.000		90.8	70	130			

Sample ID: LCS-71269	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 71269	RunNo: 92355								
Prep Date: 11/3/2022	Analysis Date: 11/4/2022	SeqNo: 3318948			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.9	80	120			
Toluene	0.99	0.050	1.000	0	99.1	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.3	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	70	130			

Sample ID: 2211151-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP22-31 4'	Batch ID: 71269	RunNo: 92355								
Prep Date: 11/3/2022	Analysis Date: 11/4/2022	SeqNo: 3318951			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9709	0	114	68.8	120			
Toluene	1.1	0.049	0.9709	0	118	73.6	124			
Ethylbenzene	1.2	0.049	0.9709	0	119	72.7	129			
Xylenes, Total	3.5	0.097	2.913	0.01881	119	75.7	126			
Surr: 4-Bromofluorobenzene	0.92		0.9709		94.5	70	130			

Sample ID: 2211151-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: TP22-31 4'	Batch ID: 71269	RunNo: 92355								
Prep Date: 11/3/2022	Analysis Date: 11/4/2022	SeqNo: 3318952			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9662	0	112	68.8	120	2.54	20	
Toluene	1.1	0.048	0.9662	0	115	73.6	124	2.70	20	
Ethylbenzene	1.1	0.048	0.9662	0	116	72.7	129	3.04	20	
Xylenes, Total	3.4	0.097	2.899	0.01881	115	75.7	126	3.90	20	
Surr: 4-Bromofluorobenzene	0.91		0.9662		93.7	70	130	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 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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2211151 RcptNo: 1

Received By: Juan Rojas 11/3/2022 7:30:00 AM

Completed By: Tracy Casarrubias 11/3/2022 8:12:41 AM

Reviewed By: KPA 11.3.22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: ju 11/3/22

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions:

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 1.5, Good, Yes, , ,

Chain-of-Custody Record

Client: Vertex (EOG)

Mailing Address: on file

Phone #: _____

email or Fax#: _____

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

Accreditation: Az Compliance Other

NELAC EDD (Type) _____

Turn-Around Time: Standard Rush 48 hr

Project Name: Dayton ER Battery

Project #: 22E-00123-01

Project Manager: Moffitt

Sampler: SPC

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CFI): 14 + 0.1 = 14.5 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
11/1/22	12:00	Soil	TP22-31 2'	14ojan ice		2211151 001
	12:15		TP22-31 4'			002
	12:30		TP22-32 2'			003
	12:45		TP22-32 4'			004

Analysis Request

<input checked="" type="checkbox"/> BTEX / MTBE / TMBs (8021)	<input checked="" type="checkbox"/> TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCBs	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	<input checked="" type="checkbox"/> Cl ⁻ , Br ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , SO ₄ ²⁻	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
---	--	---------------------------	--------------------	--------------------------	---------------	---	------------	-----------------	---------------------------------

Date: 11/1/22 Time: 11:12 Relinquished by: Sally Carter

Date: 11/01/22 Time: 1:00 Relinquished by: [Signature]

Received by: [Signature] Date: 11/3/22 Time: 7:30

Via: courier

Remarks: direct bill EOG
cc: scar-star@vertex.ca



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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



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

July 08, 2022

Monica Peppin
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Dayton Battery

OrderNo.: 2206D52

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/24/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2206D52**

Date Reported: **7/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-04 1'

Project: Dayton Battery

Collection Date: 6/23/2022 8:30:00 AM

Lab ID: 2206D52-001

Matrix: SOIL

Received Date: 6/24/2022 8:16:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LRN
Chloride	7400	300		mg/Kg	100	7/1/2022 10:57:18 AM	68444
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	110	15		mg/Kg	1	7/1/2022 3:35:18 PM	68386
Motor Oil Range Organics (MRO)	120	48		mg/Kg	1	7/1/2022 3:35:18 PM	68386
Surr: DNOP	92.3	51.1-141		%Rec	1	7/1/2022 3:35:18 PM	68386
EPA METHOD 8015D: GASOLINE RANGE							Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/28/2022 5:50:00 PM	68381
Surr: BFB	87.2	37.7-212		%Rec	1	6/28/2022 5:50:00 PM	68381
EPA METHOD 8021B: VOLATILES							Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	6/28/2022 5:50:00 PM	68381
Toluene	ND	0.047		mg/Kg	1	6/28/2022 5:50:00 PM	68381
Ethylbenzene	ND	0.047		mg/Kg	1	6/28/2022 5:50:00 PM	68381
Xylenes, Total	ND	0.094		mg/Kg	1	6/28/2022 5:50:00 PM	68381
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	6/28/2022 5:50:00 PM	68381

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

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

Analytical Report

Lab Order **2206D52**

Date Reported: 7/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-07 2'

Project: Dayton Battery

Collection Date: 6/23/2022 8:35:00 AM

Lab ID: 2206D52-002

Matrix: SOIL

Received Date: 6/24/2022 8:16:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	800	60		mg/Kg	20	6/29/2022 7:30:59 PM	68444
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	6/30/2022 3:32:16 AM	68415
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	6/30/2022 3:32:16 AM	68415
Surr: DNOP	90.7	51.1-141		%Rec	1	6/30/2022 3:32:16 AM	68415
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/28/2022 3:57:04 PM	68382
Surr: BFB	101	37.7-212		%Rec	1	6/28/2022 3:57:04 PM	68382
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/28/2022 3:57:04 PM	68382
Toluene	ND	0.048		mg/Kg	1	6/28/2022 3:57:04 PM	68382
Ethylbenzene	ND	0.048		mg/Kg	1	6/28/2022 3:57:04 PM	68382
Xylenes, Total	ND	0.097		mg/Kg	1	6/28/2022 3:57:04 PM	68382
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	6/28/2022 3:57:04 PM	68382

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206D52

08-Jul-22

Client: EOG
Project: Dayton Battery

Sample ID: MB-68444	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68444	RunNo: 89143								
Prep Date: 6/29/2022	Analysis Date: 6/29/2022	SeqNo: 3167724	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68444	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68444	RunNo: 89143								
Prep Date: 6/29/2022	Analysis Date: 6/29/2022	SeqNo: 3167725	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			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206D52

08-Jul-22

Client: EOG
Project: Dayton Battery

Sample ID: MB-68386	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68386	RunNo: 89114								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3168753			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.1	51.1	141			

Sample ID: LCS-68386	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68386	RunNo: 89114								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3168754			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	15	50.00	0	96.7	64.4	127			
Surr: DNOP	5.1		5.000		102	51.1	141			

Sample ID: MB-68415	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68415	RunNo: 89114								
Prep Date: 6/28/2022	Analysis Date: 6/30/2022	SeqNo: 3170264			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.5	51.1	141			

Sample ID: LCS-68415	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68415	RunNo: 89114								
Prep Date: 6/28/2022	Analysis Date: 6/30/2022	SeqNo: 3170265			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	98.8	64.4	127			
Surr: DNOP	5.1		5.000		103	51.1	141			

Sample ID: MB-68483	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68483	RunNo: 89114								
Prep Date: 6/30/2022	Analysis Date: 7/1/2022	SeqNo: 3171985			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		125	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206D52

08-Jul-22

Client: EOG
Project: Dayton Battery

Sample ID: LCS-68483	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68483	RunNo: 89114								
Prep Date: 6/30/2022	Analysis Date: 7/1/2022	SeqNo: 3171988	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.5		5.000		110	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2206D52

08-Jul-22

Client: EOG
Project: Dayton Battery

Sample ID: ics-68381	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 68381	RunNo: 89080								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3164760	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	72.3	137			
Surr: BFB	2000		1000		196	37.7	212			

Sample ID: mb-68381	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 68381	RunNo: 89080								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3164761	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	870		1000		87.5	37.7	212			

Sample ID: mb-68382	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 68382	RunNo: 89090								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3165011	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	37.7	212			

Sample ID: ics-68382	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 68382	RunNo: 89090								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3165012	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	114	72.3	137			
Surr: BFB	2200		1000		218	37.7	212			S

Qualifiers:

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

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

WO#: 2206D52

08-Jul-22

Client: EOG
Project: Dayton Battery

Sample ID: lcs-68381	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 68381	RunNo: 89080								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3164770	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.8	80	120			
Toluene	0.95	0.050	1.000	0	94.8	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.9	80	120			
Surr: 4-Bromofluorobenzene	0.86		1.000		85.6	70	130			

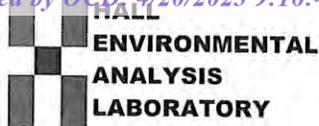
Sample ID: mb-68381	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 68381	RunNo: 89080								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3164771	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		85.2	70	130			

Sample ID: mb-68382	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 68382	RunNo: 89090								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3165039	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		94.7	70	130			

Sample ID: LCS-68382	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 68382	RunNo: 89090								
Prep Date: 6/27/2022	Analysis Date: 6/28/2022	SeqNo: 3165040	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.9	80	120			
Toluene	0.90	0.050	1.000	0	89.6	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.1	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.0	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2206D52

RcptNo: 1

Received By: Kasandra Payan 6/24/2022 8:16:00 AM

Completed By: Cheyenne Cason 6/24/2022 9:11:35 AM

Reviewed By: DAD 6/24/22

Handwritten signatures: KJP, CC

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by [signature]

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

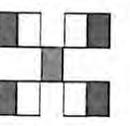
Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Rows 1 and 2.

Chain-of-Custody Record

Turn-Around Time: 5-10dy

Client: EOG/WRTEX
 Mailing Address: ORFIS

Standard Rush
 Project Name: Dayton Battery



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Phone #: 575-00123-001

Analysis Request

email or Fax#: MORINA DERRIN

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

Accreditation: Az Compliance NELAC Other

Sampler: CD Yes No

On Ice: Yes No

of Coolers: 2 244 @ 2, 2-02-20

Cooler Temp (including CF): 100.07-118 (°C)

Container Type and # 402 Preservative Type ICE

HEAL No. 2206052

Date 6/23 Time 8:35 Matrix 5011 Sample Name WEST-04 1'

Relinquished by: WEST-07 2'

Received by: CD Via: ICE Date 6/22 Time 8:16

Relinquished by: CD Via: ICE Date 6/22 Time 12:00

Received by: CD Via: ICE Date 6/22 Time 12:00

Relinquished by: CD Via: ICE Date 6/22 Time 12:00

Received by: CD Via: ICE Date 6/22 Time 12:00

Relinquished by: CD Via: ICE Date 6/22 Time 12:00

Received by: CD Via: ICE Date 6/22 Time 12:00

Relinquished by: CD Via: ICE Date 6/22 Time 12:00

Received by: CD Via: ICE Date 6/22 Time 12:00

Relinquished by: CD Via: ICE Date 6/22 Time 12:00

Received by: CD Via: ICE Date 6/22 Time 12:00

Relinquished by: CD Via: ICE Date 6/22 Time 12:00

Received by: CD Via: ICE Date 6/22 Time 12:00

Relinquished by: CD Via: ICE Date 6/22 Time 12:00

Received by: CD Via: ICE Date 6/22 Time 12:00

Analysis Request	Remarks:
BTEX / MTBE / TMB's (8021)	GC: Charac Dixon Direct Bill EOG Resources
TPH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

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

December 29, 2022

Chance Dixon

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: Dayton ER Battery

OrderNo.: 2212B89

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 3 sample(s) on 12/21/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2212B89**

Date Reported: **12/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-01 4'

Project: Dayton ER Battery

Collection Date: 12/18/2022 12:30:00 PM

Lab ID: 2212B89-001

Matrix: SOIL

Received Date: 12/21/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/22/2022 5:31:29 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/22/2022 5:31:29 PM
Surr: DNOP	111	21-129		%Rec	1	12/22/2022 5:31:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/22/2022 3:58:10 PM
Surr: BFB	86.0	37.7-212		%Rec	1	12/22/2022 3:58:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/22/2022 3:58:10 PM
Toluene	ND	0.048		mg/Kg	1	12/22/2022 3:58:10 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/22/2022 3:58:10 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/22/2022 3:58:10 PM
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	12/22/2022 3:58:10 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1900	60		mg/Kg	20	12/23/2022 2:37:21 AM

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

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

Analytical Report

Lab Order **2212B89**

Date Reported: **12/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-02 4'

Project: Dayton ER Battery

Collection Date: 12/18/2022 12:35:00 PM

Lab ID: 2212B89-002

Matrix: SOIL

Received Date: 12/21/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	48	14		mg/Kg	1	12/22/2022 6:03:07 PM
Motor Oil Range Organics (MRO)	48	45		mg/Kg	1	12/22/2022 6:03:07 PM
Surr: DNOP	110	21-129		%Rec	1	12/22/2022 6:03:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	12/22/2022 5:08:59 PM
Surr: BFB	85.8	37.7-212		%Rec	5	12/22/2022 5:08:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.12		mg/Kg	5	12/22/2022 5:08:59 PM
Toluene	ND	0.25		mg/Kg	5	12/22/2022 5:08:59 PM
Ethylbenzene	ND	0.25		mg/Kg	5	12/22/2022 5:08:59 PM
Xylenes, Total	ND	0.49		mg/Kg	5	12/22/2022 5:08:59 PM
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	5	12/22/2022 5:08:59 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1200	60		mg/Kg	20	12/23/2022 2:49:45 AM

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

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

Analytical Report

Lab Order **2212B89**

Date Reported: **12/29/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-25 0-4'

Project: Dayton ER Battery

Collection Date: 12/18/2022 1:00:00 PM

Lab ID: 2212B89-003

Matrix: SOIL

Received Date: 12/21/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/22/2022 6:13:38 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/22/2022 6:13:38 PM
Surr: DNOP	114	21-129		%Rec	1	12/22/2022 6:13:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/22/2022 6:19:45 PM
Surr: BFB	87.1	37.7-212		%Rec	1	12/22/2022 6:19:45 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/22/2022 6:19:45 PM
Toluene	ND	0.049		mg/Kg	1	12/22/2022 6:19:45 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/22/2022 6:19:45 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/22/2022 6:19:45 PM
Surr: 4-Bromofluorobenzene	86.4	70-130		%Rec	1	12/22/2022 6:19:45 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	670	60		mg/Kg	20	12/23/2022 3:02:09 AM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212B89

29-Dec-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-72283	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72283	RunNo: 93518								
Prep Date: 12/22/2022	Analysis Date: 12/22/2022	SeqNo: 3373583	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72283	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72283	RunNo: 93518								
Prep Date: 12/22/2022	Analysis Date: 12/22/2022	SeqNo: 3373584	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.9	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212B89

29-Dec-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2212B89-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BES22-01 4'	Batch ID: 72271	RunNo: 93500								
Prep Date: 12/22/2022	Analysis Date: 12/22/2022	SeqNo: 3374229			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	13	43.63	0	88.5	36.1	154			
Surr: DNOP	5.3		4.363		122	21	129			

Sample ID: 2212B89-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BES22-01 4'	Batch ID: 72271	RunNo: 93500								
Prep Date: 12/22/2022	Analysis Date: 12/22/2022	SeqNo: 3374230			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	13	44.25	0	94.6	36.1	154	8.08	33.9	
Surr: DNOP	5.6		4.425		125	21	129	0	0	

Sample ID: LCS-72271	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72271	RunNo: 93500								
Prep Date: 12/22/2022	Analysis Date: 12/22/2022	SeqNo: 3374252			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	15	50.00	0	81.4	64.4	127			
Surr: DNOP	5.9		5.000		117	21	129			

Sample ID: MB-72271	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72271	RunNo: 93500								
Prep Date: 12/22/2022	Analysis Date: 12/22/2022	SeqNo: 3374254			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		111	21	129			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212B89

29-Dec-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2212b89-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BES22-01 4'	Batch ID: 72249	RunNo: 93515								
Prep Date: 12/21/2022	Analysis Date: 12/22/2022	SeqNo: 3373440	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.8	24.02	0	112	70	130			
Surr: BFB	1900		960.6		197	37.7	212			

Sample ID: 2212b89-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BES22-01 4'	Batch ID: 72249	RunNo: 93515								
Prep Date: 12/21/2022	Analysis Date: 12/22/2022	SeqNo: 3373441	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.8	24.13	0	108	70	130	3.74	20	
Surr: BFB	1800		965.3		191	37.7	212	0	0	

Sample ID: lcs-72249	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 72249	RunNo: 93515								
Prep Date: 12/21/2022	Analysis Date: 12/22/2022	SeqNo: 3373470	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	72.3	137			
Surr: BFB	1900		1000		188	37.7	212			

Sample ID: mb-72249	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 72249	RunNo: 93515								
Prep Date: 12/21/2022	Analysis Date: 12/22/2022	SeqNo: 3373472	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	880		1000		88.2	37.7	212			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: R93539	RunNo: 93539								
Prep Date:	Analysis Date: 12/23/2022	SeqNo: 3374535	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	860		1000		86.2	37.7	212			

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: R93539	RunNo: 93539								
Prep Date:	Analysis Date: 12/23/2022	SeqNo: 3374536	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1800		1000		181	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212B89

29-Dec-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2212b89-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BES22-02 4'	Batch ID: 72249	RunNo: 93515								
Prep Date: 12/21/2022	Analysis Date: 12/22/2022	SeqNo: 3373541	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.12	0.9862	0	95.3	68.8	120			
Toluene	0.97	0.25	0.9862	0	97.9	73.6	124			
Ethylbenzene	0.96	0.25	0.9862	0	96.9	72.7	129			
Xylenes, Total	2.9	0.49	2.959	0	97.8	75.7	126			
Surr: 4-Bromofluorobenzene	4.3		4.931		87.6	70	130			

Sample ID: 2212b89-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BES22-02 4'	Batch ID: 72249	RunNo: 93515								
Prep Date: 12/21/2022	Analysis Date: 12/22/2022	SeqNo: 3373542	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.12	0.9852	0	101	68.8	120	5.66	20	
Toluene	1.0	0.25	0.9852	0	104	73.6	124	6.14	20	
Ethylbenzene	1.0	0.25	0.9852	0	103	72.7	129	6.30	20	
Xylenes, Total	3.1	0.49	2.956	0	104	75.7	126	5.85	20	
Surr: 4-Bromofluorobenzene	4.4		4.926		89.1	70	130	0	0	

Sample ID: LCS-72249	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 72249	RunNo: 93515								
Prep Date: 12/21/2022	Analysis Date: 12/22/2022	SeqNo: 3373570	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	82.6	80	120			
Toluene	0.84	0.050	1.000	0	83.8	80	120			
Ethylbenzene	0.84	0.050	1.000	0	84.5	80	120			
Xylenes, Total	2.5	0.10	3.000	0	84.5	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.3	70	130			

Sample ID: mb-72249	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 72249	RunNo: 93515								
Prep Date: 12/21/2022	Analysis Date: 12/22/2022	SeqNo: 3373572	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	0.86		1.000		86.2	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212B89

29-Dec-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: R93539		RunNo: 93539							
Prep Date:	Analysis Date: 12/23/2022		SeqNo: 3374633		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.88		1.000		87.5	70	130			

Sample ID: 100ng btex lcs	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: R93539		RunNo: 93539							
Prep Date:	Analysis Date: 12/23/2022		SeqNo: 3374634		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.87		1.000		87.3	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: **Vertex Resources Services, Inc.**

Work Order Number: **2212B89**

RcptNo: **1**

Received By: **Cheyenne Cason**

12/21/2022 7:20:00 AM

Handwritten signature

Completed By: **Cheyenne Cason**

12/21/2022 7:38:01 AM

Handwritten signature

Reviewed By: *JA 12-21-22*

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes No NA

4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA

5. Sample(s) in proper container(s)? Yes No

6. Sufficient sample volume for indicated test(s)? Yes No

7. Are samples (except VOA and ONG) properly preserved? Yes No

8. Was preservative added to bottles? Yes No NA

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA

10. Were any sample containers received broken? Yes No

11. Does paperwork match bottle labels? Yes No
(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes No

13. Is it clear what analyses were requested? Yes No

14. Were all holding times able to be met? Yes No
(If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: *JA 12/21/22*

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
By Whom: _____ Via: eMail Phone Fax In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.7	Good	Not Present			
2	4.8	Good	Not Present			

Chain-of-Custody Record

Client: ED & VECO
 Mailing Address: ON FILL
 Phone #: _____
 email or Fax#: _____
 QA/QC Package: _____
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance Other
 NELAC Other
 EDD (Type) _____



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Turn-Around Time: 48-HOUR
 Standard Rush
 Project Name: Dayton ER Battery

Project #: 22E-00123-01

Project Manager: CHANCE DIXON

Sampler: MB
 On Ice: Yes No
 # of Coolers: 2 4.7-0=4.7
 Cooler Temp (including CF): 4.8-0=4.8 (°C)

Container Type and # 402 Preservative Type ICE HEAL No. 2212389

1 12:35 1 BES22-01 4' 001
1 1:00 1 BES22-02 4' 002
1 WES22-25 0-4' 003

Analysis Request	
TFH:8015D(GRO / DRO / MRO)	BTX / MTBE / TMS (8021)
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
Cl ⁻ , Br ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , SO ₄ ²⁻	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Date: 12/20/2020 Time: 19:00 Relinquished by: [Signature]
 Date: 12/20/2020 Time: 19:00 Relinquished by: [Signature]
 Received by: [Signature] Date: 12/22/2020 Time: 13:00
 Received by: [Signature] Date: 12/22/2020 Time: 07:20

Remarks: CC: MICHAEL BARNES
CM.BARNES@HALL-ENV.COM
DIRECT BILL EOG

Analytical Report

Lab Order **2212C86**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-32 0-4'

Project: Dayton ER Battery

Collection Date: 12/20/2022 9:00:00 AM

Lab ID: 2212C86-001

Matrix: MEOH (SOIL)

Received Date: 12/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/22/2022 8:32:01 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/22/2022 8:32:01 PM
Surr: DNOP	117	21-129		%Rec	1	12/22/2022 8:32:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/22/2022 9:16:15 AM
Surr: BFB	89.5	37.7-212		%Rec	1	12/22/2022 9:16:15 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/22/2022 9:16:15 AM
Toluene	ND	0.050		mg/Kg	1	12/22/2022 9:16:15 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/22/2022 9:16:15 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/22/2022 9:16:15 AM
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	12/22/2022 9:16:15 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	1000	60		mg/Kg	20	12/27/2022

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

Qualifiers:

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

Analytical Report

Lab Order **2212C86**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-41 0-4'

Project: Dayton ER Battery

Collection Date: 12/20/2022 11:50:00 AM

Lab ID: 2212C86-002

Matrix: MEOH (SOIL)

Received Date: 12/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/22/2022 8:42:49 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/22/2022 8:42:49 PM
Surr: DNOP	119	21-129		%Rec	1	12/22/2022 8:42:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/22/2022 9:39:48 AM
Surr: BFB	89.6	37.7-212		%Rec	1	12/22/2022 9:39:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/22/2022 9:39:48 AM
Toluene	ND	0.050		mg/Kg	1	12/22/2022 9:39:48 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/22/2022 9:39:48 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/22/2022 9:39:48 AM
Surr: 4-Bromofluorobenzene	88.7	70-130		%Rec	1	12/22/2022 9:39:48 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	910	60		mg/Kg	20	12/27/2022

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

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

Analytical Report

Lab Order **2212C86**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-03 4'

Project: Dayton ER Battery

Collection Date: 12/20/2022 11:55:00 AM

Lab ID: 2212C86-003

Matrix: MEOH (SOIL)

Received Date: 12/22/2022 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/22/2022 8:53:33 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/22/2022 8:53:33 PM
Surr: DNOP	110	21-129		%Rec	1	12/22/2022 8:53:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/22/2022 10:03:24 AM
Surr: BFB	87.4	37.7-212		%Rec	1	12/22/2022 10:03:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/22/2022 10:03:24 AM
Toluene	ND	0.050		mg/Kg	1	12/22/2022 10:03:24 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/22/2022 10:03:24 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/22/2022 10:03:24 AM
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	12/22/2022 10:03:24 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	1900	60		mg/Kg	20	12/27/2022

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

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



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

January 03, 2023

Chance Dixon

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

RE: Dayton ER Battery

OrderNo.: 2212E05

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/28/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2212E05**

Date Reported: **1/3/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-50 0-4'

Project: Dayton ER Battery

Collection Date: 12/21/2022 11:15:00 AM

Lab ID: 2212E05-001

Matrix: MEOH (SOIL)

Received Date: 12/28/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	250	28		mg/Kg	2	12/31/2022 4:49:16 PM
Motor Oil Range Organics (MRO)	350	94		mg/Kg	2	12/31/2022 4:49:16 PM
Surr: DNOP	114	21-129		%Rec	2	12/31/2022 4:49:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	12/29/2022 5:26:52 AM
Surr: BFB	90.1	37.7-212		%Rec	1	12/29/2022 5:26:52 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	12/29/2022 5:26:52 AM
Toluene	ND	0.043		mg/Kg	1	12/29/2022 5:26:52 AM
Ethylbenzene	ND	0.043		mg/Kg	1	12/29/2022 5:26:52 AM
Xylenes, Total	ND	0.086		mg/Kg	1	12/29/2022 5:26:52 AM
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	12/29/2022 5:26:52 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	1000	60		mg/Kg	20	12/29/2022 1:55:02 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212E05

03-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-72348	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72348	RunNo: 93596								
Prep Date: 12/28/2022	Analysis Date: 12/28/2022	SeqNo: 3378080	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72348	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72348	RunNo: 93596								
Prep Date: 12/28/2022	Analysis Date: 12/28/2022	SeqNo: 3378081	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			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212E05

03-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-72338	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72338	RunNo: 93583								
Prep Date: 12/28/2022	Analysis Date: 12/28/2022	SeqNo: 3376644	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	90.0	64.4	127			
Surr: DNOP	4.6		5.000		92.9	21	129			

Sample ID: MB-72338	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72338	RunNo: 93583								
Prep Date: 12/28/2022	Analysis Date: 12/28/2022	SeqNo: 3376646	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.6		10.00		86.4	21	129			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212E05

03-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: mb-72309	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 72309	RunNo: 93580								
Prep Date: 12/23/2022	Analysis Date: 12/28/2022	SeqNo: 3377237	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		96.9	37.7	212			

Sample ID: lcs-72309	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 72309	RunNo: 93580								
Prep Date: 12/23/2022	Analysis Date: 12/28/2022	SeqNo: 3377238	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1900		1000		194	37.7	212			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: R93580	RunNo: 93580								
Prep Date:	Analysis Date: 12/28/2022	SeqNo: 3377272	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.0	37.7	212			

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: R93580	RunNo: 93580								
Prep Date:	Analysis Date: 12/28/2022	SeqNo: 3377273	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	72.3	137			
Surr: BFB	2000		1000		195	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212E05

03-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: mb-72309	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 72309	RunNo: 93580								
Prep Date: 12/23/2022	Analysis Date: 12/28/2022	SeqNo: 3377289	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	70	130			

Sample ID: LCS-72309	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 72309	RunNo: 93580								
Prep Date: 12/23/2022	Analysis Date: 12/28/2022	SeqNo: 3377290	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		93.5	70	130			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: R93580	RunNo: 93580								
Prep Date:	Analysis Date: 12/28/2022	SeqNo: 3377313	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	0.91		1.000		90.6	70	130			

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: R93580	RunNo: 93580								
Prep Date:	Analysis Date: 12/28/2022	SeqNo: 3377314	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.7	80	120			
Toluene	0.98	0.050	1.000	0	97.5	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.4	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.2	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc.

Work Order Number: 2212E05

RcptNo: 1

Received By: Isaiah Ortiz 12/28/2022 6:50:00 AM

IOX

Completed By: Isaiah Ortiz 12/28/2022 7:25:42 AM

IOX

Reviewed By: jn 12/28/22

Chain of Custody

1. Is Chain of Custody complete? Yes [checked] No [] Not Present []

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes [checked] No [] NA []

4. Were all samples received at a temperature of >0° C to 6.0° C Yes [checked] No [] NA []

5. Sample(s) in proper container(s)? Yes [checked] No []

6. Sufficient sample volume for indicated test(s)? Yes [checked] No []

7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []

8. Was preservative added to bottles? Yes [] No [checked] NA []

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]

10. Were any sample containers received broken? Yes [] No [checked]

11. Does paperwork match bottle labels? Yes [checked] No []

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []

13. Is it clear what analyses were requested? Yes [checked] No []

14. Were all holding times able to be met? Yes [checked] No []

(If no, notify customer for authorization.)

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: jn 12/28/22

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: Date: By Whom: Via: [] eMail [] Phone [] Fax [] In Person Regarding: Client Instructions:

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 3.3, Good, Yes, , ,



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

December 30, 2022

Chance Dixon

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: Dayton ER Battery

OrderNo.: 2212E04

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/28/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2212E04**

Date Reported: **12/30/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-56 0-4'

Project: Dayton ER Battery

Collection Date: 12/22/2022 8:40:00 AM

Lab ID: 2212E04-001

Matrix: MEOH (SOIL)

Received Date: 12/28/2022 6:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	23	14		mg/Kg	1	12/28/2022 2:26:28 PM
Motor Oil Range Organics (MRO)	49	48		mg/Kg	1	12/28/2022 2:26:28 PM
Surr: DNOP	92.9	21-129		%Rec	1	12/28/2022 2:26:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	12/29/2022 5:03:31 AM
Surr: BFB	91.1	37.7-212		%Rec	1	12/29/2022 5:03:31 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	12/29/2022 5:03:31 AM
Toluene	ND	0.041		mg/Kg	1	12/29/2022 5:03:31 AM
Ethylbenzene	ND	0.041		mg/Kg	1	12/29/2022 5:03:31 AM
Xylenes, Total	ND	0.083		mg/Kg	1	12/29/2022 5:03:31 AM
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	12/29/2022 5:03:31 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	860	60		mg/Kg	20	12/29/2022 1:42:38 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212E04

30-Dec-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-72348	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72348	RunNo: 93596								
Prep Date: 12/28/2022	Analysis Date: 12/28/2022	SeqNo: 3378080	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72348	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72348	RunNo: 93596								
Prep Date: 12/28/2022	Analysis Date: 12/28/2022	SeqNo: 3378081	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			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212E04

30-Dec-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-72338	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72338	RunNo: 93583								
Prep Date: 12/28/2022	Analysis Date: 12/28/2022	SeqNo: 3376644	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	90.0	64.4	127			
Surr: DNOP	4.6		5.000		92.9	21	129			

Sample ID: MB-72338	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72338	RunNo: 93583								
Prep Date: 12/28/2022	Analysis Date: 12/28/2022	SeqNo: 3376646	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.6		10.00		86.4	21	129			

Sample ID: LCS-72368	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72368	RunNo: 93614								
Prep Date: 12/29/2022	Analysis Date: 12/29/2022	SeqNo: 3378145	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.8		5.000		115	21	129			

Sample ID: MB-72368	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72368	RunNo: 93614								
Prep Date: 12/29/2022	Analysis Date: 12/29/2022	SeqNo: 3378147	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		110	21	129			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212E04

30-Dec-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: mb-72309	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 72309	RunNo: 93580								
Prep Date: 12/23/2022	Analysis Date: 12/28/2022	SeqNo: 3377237	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		96.9	37.7	212			

Sample ID: lcs-72309	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 72309	RunNo: 93580								
Prep Date: 12/23/2022	Analysis Date: 12/28/2022	SeqNo: 3377238	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1900		1000		194	37.7	212			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: R93580	RunNo: 93580								
Prep Date:	Analysis Date: 12/28/2022	SeqNo: 3377272	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.0	37.7	212			

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: R93580	RunNo: 93580								
Prep Date:	Analysis Date: 12/28/2022	SeqNo: 3377273	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	72.3	137			
Surr: BFB	2000		1000		195	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212E04

30-Dec-22

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: mb-72309	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 72309	RunNo: 93580								
Prep Date: 12/23/2022	Analysis Date: 12/28/2022	SeqNo: 3377289	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.90		1.000		90.4	70	130			

Sample ID: LCS-72309	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 72309	RunNo: 93580								
Prep Date: 12/23/2022	Analysis Date: 12/28/2022	SeqNo: 3377290	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		93.5	70	130			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: R93580	RunNo: 93580								
Prep Date:	Analysis Date: 12/28/2022	SeqNo: 3377313	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	0.91		1.000		90.6	70	130			

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: R93580	RunNo: 93580								
Prep Date:	Analysis Date: 12/28/2022	SeqNo: 3377314	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.7	80	120			
Toluene	0.98	0.050	1.000	0	97.5	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.4	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.2	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc.

Work Order Number: 2212E04

RcptNo: 1

Received By: Isaiah Ortiz 12/28/2022 6:50:00 AM

Completed By: Cheyenne Cason 12/28/2022 7:22:27 AM

Reviewed By: [Handwritten signature and date 12/28/22]

[Handwritten initials IOX and signature]

Chain of Custody

1. Is Chain of Custody complete? Yes [checked] No [] Not Present []

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes [checked] No [] NA []

4. Were all samples received at a temperature of >0° C to 6.0°C Yes [checked] No [] NA []

5. Sample(s) in proper container(s)? Yes [checked] No []

6. Sufficient sample volume for indicated test(s)? Yes [checked] No []

7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []

8. Was preservative added to bottles? Yes [] No [checked] NA []

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]

10. Were any sample containers received broken? Yes [] No [checked]

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes [checked] No []

12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []

13. Is it clear what analyses were requested? Yes [checked] No []

14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes [checked] No []

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: [Handwritten signature]

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 3.3, Good, Not Present, [], [], []



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

January 05, 2023

Chance Dixon

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Dayton ER Battery

OrderNo.: 2212E54

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/29/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2212E54

Date Reported: 1/5/2023

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Vertex Resources Services, Inc.**Client Sample ID:** WS22-67 0-4ft**Project:** Dayton ER Battery**Collection Date:** 12/27/2022 12:00:00 PM**Lab ID:** 2212E54-001**Matrix:** MEOH (SOIL)**Received Date:** 12/29/2022 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	14		mg/Kg	1	12/29/2022 12:09:55 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/29/2022 12:09:55 PM
Surr: DNOP	112	21-129		%Rec	1	12/29/2022 12:09:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	12/29/2022 11:43:00 AM
Surr: BFB	114	37.7-212		%Rec	1	12/29/2022 11:43:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.022		mg/Kg	1	12/29/2022 11:43:00 AM
Toluene	ND	0.045		mg/Kg	1	12/29/2022 11:43:00 AM
Ethylbenzene	ND	0.045		mg/Kg	1	12/29/2022 11:43:00 AM
Xylenes, Total	ND	0.090		mg/Kg	1	12/29/2022 11:43:00 AM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	12/29/2022 11:43:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	120	60		mg/Kg	20	12/30/2022 11:28:52 AM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212E54

05-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-72373	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72373	RunNo: 93647								
Prep Date: 12/29/2022	Analysis Date: 12/30/2022	SeqNo: 3380661	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72373	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72373	RunNo: 93647								
Prep Date: 12/29/2022	Analysis Date: 12/30/2022	SeqNo: 3380662	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.6	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212E54

05-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2212E54-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS22-67 0-4ft	Batch ID: 72368	RunNo: 93614								
Prep Date: 12/29/2022	Analysis Date: 12/29/2022	SeqNo: 3378142	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	15	49.85	0	96.1	36.1	154			
Surr: DNOP	6.1		4.985		122	21	129			

Sample ID: 2212E54-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS22-67 0-4ft	Batch ID: 72368	RunNo: 93614								
Prep Date: 12/29/2022	Analysis Date: 12/29/2022	SeqNo: 3378143	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	14	47.13	0	95.2	36.1	154	6.57	33.9	
Surr: DNOP	5.8		4.713		122	21	129	0	0	

Sample ID: LCS-72368	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72368	RunNo: 93614								
Prep Date: 12/29/2022	Analysis Date: 12/29/2022	SeqNo: 3378145	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	89.3	64.4	127			
Surr: DNOP	5.8		5.000		115	21	129			

Sample ID: MB-72368	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72368	RunNo: 93614								
Prep Date: 12/29/2022	Analysis Date: 12/29/2022	SeqNo: 3378147	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		110	21	129			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212E54

05-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: ics-72341	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 72341		RunNo: 93636							
Prep Date: 12/28/2022	Analysis Date: 12/29/2022		SeqNo: 3378986		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	2300		1000		225	37.7	212			S

Sample ID: mb-72341	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 72341		RunNo: 93636							
Prep Date: 12/28/2022	Analysis Date: 12/29/2022		SeqNo: 3378987		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		113	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2212E54

05-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: ics-72341	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72341		RunNo: 93636							
Prep Date: 12/28/2022	Analysis Date: 12/29/2022		SeqNo: 3379011		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	110	80	120			
Toluene	1.1	0.050	1.000	0	111	80	120			
Ethylbenzene	1.1	0.050	1.000	0	111	80	120			
Xylenes, Total	3.4	0.10	3.000	0	112	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		124	70	130			

Sample ID: mb-72341	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72341		RunNo: 93636							
Prep Date: 12/28/2022	Analysis Date: 12/29/2022		SeqNo: 3379012		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		124	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc.

Work Order Number: 2212E54

RcptNo: 1

Received By: Cheyenne Cason

12/29/2022 7:30:00 AM

Handwritten signature

Completed By: Cheyenne Cason

12/29/2022 7:47:38 AM

Handwritten signature

Reviewed By: [Signature] 12-29-22

Chain of Custody

- 1. Is Chain of Custody complete? Yes [] No [x] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: ju 12/29/22

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [x]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 0.8, Good, Not Present, IR Yogi



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

January 12, 2023

Chance Dixon

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

RE: Dayton ER Battery

OrderNo.: 2301062

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 9 sample(s) on 1/4/2023 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2301062**

Date Reported: **1/12/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS22-82 0-4ft

Project: Dayton ER Battery

Collection Date: 12/29/2022 10:00:00 AM

Lab ID: 2301062-001

Matrix: MEOH (SOIL)

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/5/2023 3:45:38 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/5/2023 3:45:38 PM
Surr: DNOP	108	21-129		%Rec	1	1/5/2023 3:45:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	1/4/2023 10:24:00 AM
Surr: BFB	112	37.7-212		%Rec	1	1/4/2023 10:24:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.020		mg/Kg	1	1/4/2023 10:24:00 AM
Toluene	ND	0.041		mg/Kg	1	1/4/2023 10:24:00 AM
Ethylbenzene	ND	0.041		mg/Kg	1	1/4/2023 10:24:00 AM
Xylenes, Total	ND	0.081		mg/Kg	1	1/4/2023 10:24:00 AM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/4/2023 10:24:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	74	60		mg/Kg	20	1/4/2023 2:50:19 PM

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

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

Analytical Report

Lab Order **2301062**

Date Reported: **1/12/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-04 4ft

Project: Dayton ER Battery

Collection Date: 12/29/2022 1:50:00 PM

Lab ID: 2301062-002

Matrix: MEOH (SOIL)

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	87	15		mg/Kg	1	1/5/2023 2:05:55 PM
Motor Oil Range Organics (MRO)	73	50		mg/Kg	1	1/5/2023 2:05:55 PM
Surr: DNOP	114	21-129		%Rec	1	1/5/2023 2:05:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	1/4/2023 10:44:00 AM
Surr: BFB	109	37.7-212		%Rec	1	1/4/2023 10:44:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.022		mg/Kg	1	1/4/2023 10:44:00 AM
Toluene	ND	0.043		mg/Kg	1	1/4/2023 10:44:00 AM
Ethylbenzene	ND	0.043		mg/Kg	1	1/4/2023 10:44:00 AM
Xylenes, Total	ND	0.087		mg/Kg	1	1/4/2023 10:44:00 AM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/4/2023 10:44:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	1800	60		mg/Kg	20	1/4/2023 3:27:21 PM

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

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

Analytical Report

Lab Order **2301062**

Date Reported: **1/12/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-05 4ft

Project: Dayton ER Battery

Collection Date: 12/29/2022 1:55:00 PM

Lab ID: 2301062-003

Matrix: MEOH (SOIL)

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	370	15		mg/Kg	1	1/5/2023 3:35:19 PM
Motor Oil Range Organics (MRO)	270	49		mg/Kg	1	1/5/2023 3:35:19 PM
Surr: DNOP	108	21-129		%Rec	1	1/5/2023 3:35:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	1/4/2023 11:04:00 AM
Surr: BFB	113	37.7-212		%Rec	1	1/4/2023 11:04:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.021		mg/Kg	1	1/4/2023 11:04:00 AM
Toluene	ND	0.043		mg/Kg	1	1/4/2023 11:04:00 AM
Ethylbenzene	ND	0.043		mg/Kg	1	1/4/2023 11:04:00 AM
Xylenes, Total	ND	0.085		mg/Kg	1	1/4/2023 11:04:00 AM
Surr: 4-Bromofluorobenzene	125	70-130		%Rec	1	1/4/2023 11:04:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	5700	300		mg/Kg	100	1/5/2023 8:38:50 AM

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

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

Analytical Report

Lab Order **2301062**

Date Reported: **1/12/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-06 4ft

Project: Dayton ER Battery

Collection Date: 12/29/2022 2:00:00 PM

Lab ID: 2301062-004

Matrix: MEOH (SOIL)

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	30	14		mg/Kg	1	1/5/2023 11:35:48 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/5/2023 11:35:48 AM
Surr: DNOP	111	21-129		%Rec	1	1/5/2023 11:35:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	1/4/2023 11:23:00 AM
Surr: BFB	108	37.7-212		%Rec	1	1/4/2023 11:23:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.022		mg/Kg	1	1/4/2023 11:23:00 AM
Toluene	ND	0.043		mg/Kg	1	1/4/2023 11:23:00 AM
Ethylbenzene	ND	0.043		mg/Kg	1	1/4/2023 11:23:00 AM
Xylenes, Total	ND	0.086		mg/Kg	1	1/4/2023 11:23:00 AM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/4/2023 11:23:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	1300	61		mg/Kg	20	1/4/2023 4:16:45 PM

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

Qualifiers:

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

Analytical Report

Lab Order **2301062**

Date Reported: **1/12/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-07 4ft

Project: Dayton ER Battery

Collection Date: 12/29/2022 2:05:00 PM

Lab ID: 2301062-005

Matrix: MEOH (SOIL)

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/5/2023 11:46:34 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/5/2023 11:46:34 AM
Surr: DNOP	111	21-129		%Rec	1	1/5/2023 11:46:34 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	1/4/2023 11:43:00 AM
Surr: BFB	106	37.7-212		%Rec	1	1/4/2023 11:43:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.022		mg/Kg	1	1/4/2023 11:43:00 AM
Toluene	ND	0.044		mg/Kg	1	1/4/2023 11:43:00 AM
Ethylbenzene	ND	0.044		mg/Kg	1	1/4/2023 11:43:00 AM
Xylenes, Total	ND	0.089		mg/Kg	1	1/4/2023 11:43:00 AM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/4/2023 11:43:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	670	60		mg/Kg	20	1/4/2023 4:53:48 PM

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

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

Analytical Report

Lab Order **2301062**

Date Reported: **1/12/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-08 4ft

Project: Dayton ER Battery

Collection Date: 12/29/2022 2:10:00 PM

Lab ID: 2301062-006

Matrix: MEOH (SOIL)

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/5/2023 11:57:19 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/5/2023 11:57:19 AM
Surr: DNOP	110	21-129		%Rec	1	1/5/2023 11:57:19 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.5		mg/Kg	1	1/4/2023 12:03:00 PM
Surr: BFB	110	37.7-212		%Rec	1	1/4/2023 12:03:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.027		mg/Kg	1	1/4/2023 12:03:00 PM
Toluene	ND	0.055		mg/Kg	1	1/4/2023 12:03:00 PM
Ethylbenzene	ND	0.055		mg/Kg	1	1/4/2023 12:03:00 PM
Xylenes, Total	ND	0.11		mg/Kg	1	1/4/2023 12:03:00 PM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/4/2023 12:03:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	950	60		mg/Kg	20	1/4/2023 5:06:09 PM

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

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

Analytical Report

Lab Order **2301062**

Date Reported: **1/12/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-09 4ft

Project: Dayton ER Battery

Collection Date: 12/29/2022 2:15:00 PM

Lab ID: 2301062-007

Matrix: MEOH (SOIL)

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/5/2023 12:08:09 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/5/2023 12:08:09 PM
Surr: DNOP	111	21-129		%Rec	1	1/5/2023 12:08:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/4/2023 12:22:00 PM
Surr: BFB	108	37.7-212		%Rec	1	1/4/2023 12:22:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	1/4/2023 12:22:00 PM
Toluene	ND	0.047		mg/Kg	1	1/4/2023 12:22:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/4/2023 12:22:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/4/2023 12:22:00 PM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/4/2023 12:22:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	1500	60		mg/Kg	20	1/4/2023 5:18:30 PM

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

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

Analytical Report

Lab Order **2301062**

Date Reported: **1/12/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-10 4ft

Project: Dayton ER Battery

Collection Date: 12/30/2022 10:00:00 AM

Lab ID: 2301062-008

Matrix: MEOH (SOIL)

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	250	13		mg/Kg	1	1/5/2023 4:46:27 PM
Motor Oil Range Organics (MRO)	280	42		mg/Kg	1	1/5/2023 4:46:27 PM
Surr: DNOP	117	21-129		%Rec	1	1/5/2023 4:46:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	1/4/2023 12:42:00 PM
Surr: BFB	105	37.7-212		%Rec	1	1/4/2023 12:42:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.021		mg/Kg	1	1/4/2023 12:42:00 PM
Toluene	ND	0.042		mg/Kg	1	1/4/2023 12:42:00 PM
Ethylbenzene	ND	0.042		mg/Kg	1	1/4/2023 12:42:00 PM
Xylenes, Total	ND	0.085		mg/Kg	1	1/4/2023 12:42:00 PM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/4/2023 12:42:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	2200	150		mg/Kg	50	1/5/2023 8:51:11 AM

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

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

Analytical Report

Lab Order **2301062**

Date Reported: **1/12/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS22-11 4ft

Project: Dayton ER Battery

Collection Date: 12/30/2022 10:05:00 AM

Lab ID: 2301062-009

Matrix: MEOH (SOIL)

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	52	14		mg/Kg	1	1/5/2023 3:03:11 PM
Motor Oil Range Organics (MRO)	77	47		mg/Kg	1	1/5/2023 3:03:11 PM
Surr: DNOP	116	21-129		%Rec	1	1/5/2023 3:03:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	1/4/2023 1:01:00 PM
Surr: BFB	110	37.7-212		%Rec	1	1/4/2023 1:01:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.021		mg/Kg	1	1/4/2023 1:01:00 PM
Toluene	ND	0.042		mg/Kg	1	1/4/2023 1:01:00 PM
Ethylbenzene	ND	0.042		mg/Kg	1	1/4/2023 1:01:00 PM
Xylenes, Total	ND	0.085		mg/Kg	1	1/4/2023 1:01:00 PM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/4/2023 1:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	2500	150		mg/Kg	50	1/5/2023 9:03:31 AM

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301062

12-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-72451	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72451	RunNo: 93717								
Prep Date: 1/4/2023	Analysis Date: 1/4/2023	SeqNo: 3382844	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72451	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72451	RunNo: 93717								
Prep Date: 1/4/2023	Analysis Date: 1/4/2023	SeqNo: 3382845	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.8	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301062

12-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2301062-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS22-82 0-4ft	Batch ID: 72438	RunNo: 93740								
Prep Date: 1/4/2023	Analysis Date: 1/5/2023	SeqNo: 3384560	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	14	46.86	0	86.1	36.1	154	0	33.9	
Surr: DNOP	5.1		4.686		109	21	129	0	0	

Sample ID: LCS-72438	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72438	RunNo: 93740								
Prep Date: 1/4/2023	Analysis Date: 1/5/2023	SeqNo: 3384609	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	15	50.00	0	87.0	64.4	127			
Surr: DNOP	5.8		5.000		115	21	129			

Sample ID: LCS-72455	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72455	RunNo: 93740								
Prep Date: 1/4/2023	Analysis Date: 1/5/2023	SeqNo: 3384611	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.9		5.000		139	21	129			S

Sample ID: LCS-72457	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72457	RunNo: 93740								
Prep Date: 1/4/2023	Analysis Date: 1/6/2023	SeqNo: 3384612	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.7		5.000		134	21	129			S

Sample ID: MB-72438	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72438	RunNo: 93740								
Prep Date: 1/4/2023	Analysis Date: 1/5/2023	SeqNo: 3384613	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		111	21	129			

Sample ID: MB-72455	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72455	RunNo: 93740								
Prep Date: 1/4/2023	Analysis Date: 1/5/2023	SeqNo: 3384615	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		124	21	129			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301062

12-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-72457	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72457	RunNo: 93740								
Prep Date: 1/4/2023	Analysis Date: 1/6/2023	SeqNo: 3384616	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		128	21	129			

Sample ID: 2301062-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS22-82 0-4ft	Batch ID: 72438	RunNo: 93738								
Prep Date: 1/4/2023	Analysis Date: 1/5/2023	SeqNo: 3386302	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	15	50.00	0	106	36.1	154			
Surr: DNOP	5.0		5.000		99.8	21	129			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301062

12-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: R93712		RunNo: 93712							
Prep Date:	Analysis Date: 1/4/2023		SeqNo: 3382615		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	37.7	212			

Sample ID: 2301062-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WS22-82 0-4ft	Batch ID: R93712		RunNo: 93712							
Prep Date:	Analysis Date: 1/4/2023		SeqNo: 3382637		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.1	20.36	0	101	70	130			
Surr: BFB	1900		814.3		228	37.7	212			S

Sample ID: 2301062-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WS22-82 0-4ft	Batch ID: R93712		RunNo: 93712							
Prep Date:	Analysis Date: 1/4/2023		SeqNo: 3382638		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.1	20.36	0	97.7	70	130	3.42	20	
Surr: BFB	1800		814.3		223	37.7	212	0	0	S

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: R93712		RunNo: 93712							
Prep Date:	Analysis Date: 1/4/2023		SeqNo: 3382768		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	72.3	137			
Surr: BFB	2300		1000		232	37.7	212			S

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301062

12-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 100ng btex lcs	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: BS93712		RunNo: 93712							
Prep Date:	Analysis Date: 1/4/2023		SeqNo: 3382691		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	115	80	120			
Toluene	1.2	0.050	1.000	0	118	80	120			
Ethylbenzene	1.2	0.050	1.000	0	118	80	120			
Xylenes, Total	3.5	0.10	3.000	0	118	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		124	70	130			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: BS93712		RunNo: 93712							
Prep Date:	Analysis Date: 1/4/2023		SeqNo: 3382692		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		124	70	130			

Sample ID: 2301062-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BS22-04 4ft	Batch ID: BS93712		RunNo: 93712							
Prep Date:	Analysis Date: 1/4/2023		SeqNo: 3382713		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.022	0.8666	0	110	68.8	120			
Toluene	0.98	0.043	0.8666	0	113	73.6	124			
Ethylbenzene	0.99	0.043	0.8666	0	114	72.7	129			
Xylenes, Total	3.0	0.087	2.600	0	114	75.7	126			
Surr: 4-Bromofluorobenzene	1.0		0.8666		120	70	130			

Sample ID: 2301062-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BS22-04 4ft	Batch ID: BS93712		RunNo: 93712							
Prep Date:	Analysis Date: 1/4/2023		SeqNo: 3382714		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.022	0.8666	0	105	68.8	120	5.35	20	
Toluene	0.93	0.043	0.8666	0	108	73.6	124	4.81	20	
Ethylbenzene	0.94	0.043	0.8666	0	109	72.7	129	4.65	20	
Xylenes, Total	2.8	0.087	2.600	0	109	75.7	126	4.78	20	
Surr: 4-Bromofluorobenzene	1.0		0.8666		116	70	130	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 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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2301062 RcptNo: 1

Received By: Tracy Casarrubias 1/4/2023 7:15:00 AM

Completed By: Tracy Casarrubias 1/4/2023 7:41:01 AM

Reviewed By: [Handwritten signature]

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH:
(<2 or >12 unless noted)
Adjusted?
Checked by: JW 1/4/23

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 4.0, Good, Yes, [], [], []

Chain-of-Custody Record

Client: EOG Resources
 (Next)
 Mailing Address: On file

Turn-Around Time:
 Standard Rush 24hr
 Project Name: Dixon ER
Bentley
 Project #: 22E-00123-01

Project Manager:
Chance Dixon
 Sampler: Fernando Rodriguez
 On Ice: Yes No
 # of Coolers: 1 Yohi
 Cooler Temp (including CF): 4.0-4.0 (°C)

Container Type and #
 Preservative Type
 HEAL No.
4062
001
002
003
004
005
006
007

Date: 13/13 Time: 16:00
 Relinquished by: [Signature]
 Date: 13/13 Time: 19:00
 Relinquished by: [Signature]

Received by: [Signature] Date: 1/13/23 Time: 9:30
 Received by: [Signature] Date: 1/4/23 Time: 7:15



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

Analysis Request	
TPH:8015D(GRO / DRO / MRO)	<input checked="" type="checkbox"/>
8081 Pesticides/8082 PCB's	<input type="checkbox"/>
EDB (Method 504.1)	<input type="checkbox"/>
PAHs by 8310 or 8270SIMS	<input type="checkbox"/>
RCRA 8 Metals	<input checked="" type="checkbox"/>
(C) F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	<input checked="" type="checkbox"/>
8260 (VOA)	<input type="checkbox"/>
8270 (Semi-VOA)	<input type="checkbox"/>
Total Coliform (Present/Absent)	<input type="checkbox"/>

Remarks:
CC: Chance Dixon & Fernando Rodriguez
Direct bill to EOG



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

January 17, 2023

Chance Dixon

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

RE: Dayton ER Battery

OrderNo.: 2301377

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/11/2023 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2301377**

Date Reported: **1/17/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-135

Project: Dayton ER Battery

Collection Date: 1/9/2023 9:15:00 AM

Lab ID: 2301377-001

Matrix: SOIL

Received Date: 1/11/2023 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/13/2023 1:03:10 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/13/2023 1:03:10 AM
Surr: DNOP	95.8	69-147		%Rec	1	1/13/2023 1:03:10 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/12/2023 8:28:18 PM
Surr: BFB	98.7	37.7-212		%Rec	1	1/12/2023 8:28:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/12/2023 8:28:18 PM
Toluene	ND	0.048		mg/Kg	1	1/12/2023 8:28:18 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/12/2023 8:28:18 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/12/2023 8:28:18 PM
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	1/12/2023 8:28:18 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	350	60		mg/Kg	20	1/12/2023 12:45:23 PM

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

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

Analytical Report

Lab Order **2301377**

Date Reported: **1/17/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-136

Project: Dayton ER Battery

Collection Date: 1/9/2023 9:45:00 AM

Lab ID: 2301377-002

Matrix: SOIL

Received Date: 1/11/2023 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/13/2023 1:13:43 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/13/2023 1:13:43 AM
Surr: DNOP	89.0	69-147		%Rec	1	1/13/2023 1:13:43 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2023 8:51:42 PM
Surr: BFB	102	37.7-212		%Rec	1	1/12/2023 8:51:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/12/2023 8:51:42 PM
Toluene	ND	0.050		mg/Kg	1	1/12/2023 8:51:42 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2023 8:51:42 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/12/2023 8:51:42 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	1/12/2023 8:51:42 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	520	60		mg/Kg	20	1/12/2023 1:22:37 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301377

17-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-72586	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72586	RunNo: 93916								
Prep Date: 1/12/2023	Analysis Date: 1/12/2023	SeqNo: 3390974	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72586	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72586	RunNo: 93916								
Prep Date: 1/12/2023	Analysis Date: 1/12/2023	SeqNo: 3390975	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301377

17-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-72585	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 72585		RunNo: 93911							
Prep Date: 1/12/2023	Analysis Date: 1/12/2023		SeqNo: 3390353		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.6		5.000		111	69	147			

Sample ID: MB-72585	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 72585		RunNo: 93911							
Prep Date: 1/12/2023	Analysis Date: 1/12/2023		SeqNo: 3390355		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		106	69	147			

Sample ID: LCS-72584	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 72584		RunNo: 93911							
Prep Date: 1/11/2023	Analysis Date: 1/12/2023		SeqNo: 3391719		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	82.0	61.9	130			
Surr: DNOP	5.3		5.000		106	69	147			

Sample ID: MB-72584	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 72584		RunNo: 93911							
Prep Date: 1/11/2023	Analysis Date: 1/12/2023		SeqNo: 3391724		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	11		10.00		113	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301377

17-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: ics-72577	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 72577	RunNo: 93928								
Prep Date: 1/11/2023	Analysis Date: 1/12/2023	SeqNo: 3391322	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.6	72.3	137			
Surr: BFB	2000		1000		195	37.7	212			

Sample ID: mb-72577	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 72577	RunNo: 93928								
Prep Date: 1/11/2023	Analysis Date: 1/12/2023	SeqNo: 3391323	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301377

17-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-72577	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72577		RunNo: 93928							
Prep Date: 1/11/2023	Analysis Date: 1/12/2023		SeqNo: 3391519		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.2	80	120			
Toluene	0.97	0.050	1.000	0	96.9	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.7	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.9	70	130			

Sample ID: mb-72577	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72577		RunNo: 93928							
Prep Date: 1/11/2023	Analysis Date: 1/12/2023		SeqNo: 3391520		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.5	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc.

Work Order Number: 2301377

RcptNo: 1

Received By: Tracy Casarrubias 1/11/2023 7:35:00 AM

Completed By: Tracy Casarrubias 1/11/2023 8:01:00 AM

Reviewed By: *JR 1/11/23*

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: *JR 1/11/23*

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
By Whom: _____ Via: eMail Phone Fax In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.8	Good	Yes			

Chain-of-Custody Record

Client: Vertex

Turn-Around Time: 48-HOUR

Standard Rush

Project Name: Dayton ER Battery

Project #: 22 E-00123-01

Project Manager: Chance Dixon

Sampler: _____

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CP): 5.8 - 5.8 (°C)

Container Type and # 402 ICE Preservative Type ICE HEAL No. 2301377

Date Time Matrix Sample Name

1-9-23 9:15 soil WS23-135

1-9-23 9:45 soil WS23-136



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request	
TPH:8015D(GRO / DRO / MRO)	MTBE / TMB's (8021)
8081 Pesticides/8082 PCB's	EDB (Method 504.1)
PAHs by 8310 or 8270SIMS	RCRA 8 Metals
8260 (VOA)	Cl ⁻ , F ⁻ , Br ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ⁻ , SO ₄ ⁻
8270 (Semi-VOA)	Total Coliform (Present/Absent)

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

Accreditation: Az Compliance NELAC Other

email or Fax#: _____

Relinquished by: Zach Englebert Date: 1-9-23 1800 Time: 1900

Received by: [Signature] Date: 1/10/23 1030 Time: 7:35

Via: Car

Remarks: CC: Chance Dixon and Zach Englebert
Direct bill to EOG



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

January 23, 2023

Chance Dixon

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Dayton ER Battery

OrderNo.: 2301630

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/18/2023 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2301630**

Date Reported: **1/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-157 0-4ft

Project: Dayton ER Battery

Collection Date: 1/16/2023 12:00:00 PM

Lab ID: 2301630-001

Matrix: MEOH (SOIL)

Received Date: 1/18/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/18/2023 10:50:34 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/18/2023 10:50:34 AM
Surr: DNOP	108	69-147		%Rec	1	1/18/2023 10:50:34 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	1/18/2023 11:55:54 AM
Surr: BFB	102	37.7-212		%Rec	1	1/18/2023 11:55:54 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.019		mg/Kg	1	1/18/2023 11:55:54 AM
Toluene	ND	0.037		mg/Kg	1	1/18/2023 11:55:54 AM
Ethylbenzene	ND	0.037		mg/Kg	1	1/18/2023 11:55:54 AM
Xylenes, Total	ND	0.075		mg/Kg	1	1/18/2023 11:55:54 AM
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	1/18/2023 11:55:54 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	1000	60		mg/Kg	20	1/18/2023 11:50:44 PM

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

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

Analytical Report

Lab Order **2301630**

Date Reported: **1/23/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-158 0-4ft

Project: Dayton ER Battery

Collection Date: 1/16/2023 12:05:00 PM

Lab ID: 2301630-002

Matrix: MEOH (SOIL)

Received Date: 1/18/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/18/2023 11:22:06 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/18/2023 11:22:06 AM
Surr: DNOP	102	69-147		%Rec	1	1/18/2023 11:22:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	1/18/2023 12:19:18 PM
Surr: BFB	105	37.7-212		%Rec	1	1/18/2023 12:19:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.020		mg/Kg	1	1/18/2023 12:19:18 PM
Toluene	ND	0.040		mg/Kg	1	1/18/2023 12:19:18 PM
Ethylbenzene	ND	0.040		mg/Kg	1	1/18/2023 12:19:18 PM
Xylenes, Total	ND	0.080		mg/Kg	1	1/18/2023 12:19:18 PM
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	1/18/2023 12:19:18 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	930	60		mg/Kg	20	1/19/2023 12:03:04 AM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301630

23-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-72686	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72686	RunNo: 94056								
Prep Date: 1/18/2023	Analysis Date: 1/18/2023	SeqNo: 3395603	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72686	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72686	RunNo: 94056								
Prep Date: 1/18/2023	Analysis Date: 1/18/2023	SeqNo: 3395604	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.4	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301630

23-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2301630-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS23-157 0-4ft	Batch ID: 72678	RunNo: 94027								
Prep Date: 1/18/2023	Analysis Date: 1/18/2023	SeqNo: 3394465	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.9	49.36	0	95.8	54.2	135			
Surr: DNOP	5.6		4.936		113	69	147			

Sample ID: 2301630-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS23-157 0-4ft	Batch ID: 72678	RunNo: 94027								
Prep Date: 1/18/2023	Analysis Date: 1/18/2023	SeqNo: 3394466	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.7	48.50	0	96.1	54.2	135	1.42	29.2	
Surr: DNOP	5.6		4.850		116	69	147	0	0	

Sample ID: LCS-72678	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72678	RunNo: 94027								
Prep Date: 1/18/2023	Analysis Date: 1/18/2023	SeqNo: 3394469	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	89.0	61.9	130			
Surr: DNOP	5.4		5.000		108	69	147			

Sample ID: MB-72678	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72678	RunNo: 94027								
Prep Date: 1/18/2023	Analysis Date: 1/18/2023	SeqNo: 3394471	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	9.7		10.00		97.0	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301630

23-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2301630-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WS23-157 0-4ft	Batch ID: GS94015		RunNo: 94015							
Prep Date:	Analysis Date: 1/18/2023		SeqNo: 3394926		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.7	18.69	0	93.6	70	130			
Surr: BFB	1500		747.4		197	37.7	212			

Sample ID: 2301630-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WS23-157 0-4ft	Batch ID: GS94015		RunNo: 94015							
Prep Date:	Analysis Date: 1/18/2023		SeqNo: 3394927		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	3.7	18.69	0	94.8	70	130	1.23	20	
Surr: BFB	1500		747.4		202	37.7	212	0	0	

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: GS94015		RunNo: 94015							
Prep Date:	Analysis Date: 1/18/2023		SeqNo: 3396452		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.6	72.3	137			
Surr: BFB	2000		1000		196	37.7	212			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: GS94015		RunNo: 94015							
Prep Date:	Analysis Date: 1/18/2023		SeqNo: 3398036		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301630

23-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2301630-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: WS23-158 0-4ft	Batch ID: BS94015	RunNo: 94015								
Prep Date:	Analysis Date: 1/18/2023	SeqNo: 3395022	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.56	0.020	0.8006	0	69.7	68.8	120			
Toluene	0.59	0.040	0.8006	0	73.5	73.6	124			S
Ethylbenzene	0.60	0.040	0.8006	0	74.8	72.7	129			
Xylenes, Total	1.8	0.080	2.402	0	74.9	75.7	126			S
Surr: 4-Bromofluorobenzene	0.79		0.8006		98.7	70	130			

Sample ID: 2301630-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: WS23-158 0-4ft	Batch ID: BS94015	RunNo: 94015								
Prep Date:	Analysis Date: 1/18/2023	SeqNo: 3395023	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.56	0.020	0.8006	0	70.3	68.8	120	0.929	20	
Toluene	0.60	0.040	0.8006	0	74.4	73.6	124	1.20	20	
Ethylbenzene	0.61	0.040	0.8006	0	76.1	72.7	129	1.72	20	
Xylenes, Total	1.8	0.080	2.402	0	75.7	75.7	126	1.17	20	
Surr: 4-Bromofluorobenzene	0.80		0.8006		100	70	130	0	0	

Sample ID: 100ng btex lcs-ii	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: BS94015	RunNo: 94015								
Prep Date:	Analysis Date: 1/18/2023	SeqNo: 3396465	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	91.2	80	120			
Toluene	0.96	0.050	1.000	0	96.5	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.4	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.1	70	130			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: BS94015	RunNo: 94015								
Prep Date:	Analysis Date: 1/18/2023	SeqNo: 3398037	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	0.94		1.000		94.2	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc.

Work Order Number: 2301630

RcptNo: 1

Received By: Juan Rojas

1/18/2023 7:30:00 AM

0720 JU 1-18-23 [Signature]

Completed By: Cheyenne Cason

1/18/2023 7:43:24 AM

[Signature]

Reviewed By: JR 1/18/23

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: JR 1-18-23

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

16. Additional remarks:

Client Information not complete.

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.0	Good	Not Present	Morty		

Chain-of-Custody Record

Client: EOG Resources
 Mailing Address: Onfile
 Project Name: Dutton EF Battery
 Project #: UE-00123-01

Turn-Around Time: Standard Rush 24hr
 Project Manager: Chance Dixon
 Sampler: Fernando Rodriguez
 On Ice: Yes No
 # of Coolers: 1 Marty
 Cooler Temp (including CF): 29 to 13.0 (°C)

QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: Az Compliance NELAC Other
 EDD (Type): _____
 Container Type and # | Preservative Type | HEAL No. |
 4/16 12:00 Soil W523-157 0-4ft 402gW ICE 001
 4/16 12:05 Soil W523-158 0-4ft 402gW ICE 002



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request	
<input checked="" type="checkbox"/> (BTEX) / MTBE / TMB's (8021)	
<input checked="" type="checkbox"/> TPH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCBs	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
<input checked="" type="checkbox"/> (C) F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Remarks: CC: Chance Dixon & Fernando Rodriguez
Direct Bill to EOG

Date: 4/17 Time: 7:30 Relinquished by: [Signature]
 Date: 4/17 Time: 7:30 Relinquished by: [Signature]
 Received by: [Signature] Date: 4/17 Time: 7:30
 Received by: [Signature] Date: 4/17 Time: 7:30



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Website: www.hallenvironmental.com

January 24, 2023

Chance Dixon

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Dayton ER Battery

OrderNo.: 2301707

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 3 sample(s) on 1/19/2023 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2301707**

Date Reported: **1/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-163 0-4ft

Project: Dayton ER Battery

Collection Date: 1/17/2023 11:00:00 AM

Lab ID: 2301707-001

Matrix: MEOH (SOIL)

Received Date: 1/19/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/19/2023 2:22:46 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/19/2023 2:22:46 PM
Surr: DNOP	113	69-147		%Rec	1	1/19/2023 2:22:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	1/19/2023 11:25:22 AM
Surr: BFB	102	37.7-212		%Rec	1	1/19/2023 11:25:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.021		mg/Kg	1	1/19/2023 11:25:22 AM
Toluene	ND	0.043		mg/Kg	1	1/19/2023 11:25:22 AM
Ethylbenzene	ND	0.043		mg/Kg	1	1/19/2023 11:25:22 AM
Xylenes, Total	ND	0.085		mg/Kg	1	1/19/2023 11:25:22 AM
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	1/19/2023 11:25:22 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	180	60		mg/Kg	20	1/19/2023 8:38:24 PM

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

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

Analytical Report

Lab Order **2301707**

Date Reported: **1/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-165 0-4ft

Project: Dayton ER Battery

Collection Date: 1/17/2023 11:05:00 AM

Lab ID: 2301707-002

Matrix: MEOH (SOIL)

Received Date: 1/19/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/19/2023 5:18:10 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/19/2023 5:18:10 PM
Surr: DNOP	109	69-147		%Rec	1	1/19/2023 5:18:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/19/2023 11:48:46 AM
Surr: BFB	102	37.7-212		%Rec	1	1/19/2023 11:48:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	1/19/2023 11:48:46 AM
Toluene	ND	0.047		mg/Kg	1	1/19/2023 11:48:46 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/19/2023 11:48:46 AM
Xylenes, Total	ND	0.093		mg/Kg	1	1/19/2023 11:48:46 AM
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	1/19/2023 11:48:46 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	460	60		mg/Kg	20	1/19/2023 8:50:46 PM

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

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

Analytical Report

Lab Order **2301707**

Date Reported: **1/24/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-166 0-4ft

Project: Dayton ER Battery

Collection Date: 1/17/2023 11:10:00 AM

Lab ID: 2301707-003

Matrix: MEOH (SOIL)

Received Date: 1/19/2023 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/19/2023 5:28:43 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/19/2023 5:28:43 PM
Surr: DNOP	106	69-147		%Rec	1	1/19/2023 5:28:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.5		mg/Kg	1	1/19/2023 12:12:12 PM
Surr: BFB	101	37.7-212		%Rec	1	1/19/2023 12:12:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.022		mg/Kg	1	1/19/2023 12:12:12 PM
Toluene	ND	0.045		mg/Kg	1	1/19/2023 12:12:12 PM
Ethylbenzene	ND	0.045		mg/Kg	1	1/19/2023 12:12:12 PM
Xylenes, Total	ND	0.089		mg/Kg	1	1/19/2023 12:12:12 PM
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	1/19/2023 12:12:12 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	430	60		mg/Kg	20	1/19/2023 9:03:07 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301707

24-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-72723	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72723	RunNo: 94086								
Prep Date: 1/19/2023	Analysis Date: 1/19/2023	SeqNo: 3396840	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72723	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72723	RunNo: 94086								
Prep Date: 1/19/2023	Analysis Date: 1/19/2023	SeqNo: 3396841	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			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301707

24-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-72705	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 72705		RunNo: 94064							
Prep Date: 1/19/2023	Analysis Date: 1/19/2023		SeqNo: 3395764		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	85.4	61.9	130			
Surr: DNOP	5.4		5.000		109	69	147			

Sample ID: MB-72705	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 72705		RunNo: 94064							
Prep Date: 1/19/2023	Analysis Date: 1/19/2023		SeqNo: 3395768		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	69	147			

Sample ID: 2301707-001AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: WS23-163 0-4ft	Batch ID: 72705		RunNo: 94064							
Prep Date: 1/19/2023	Analysis Date: 1/19/2023		SeqNo: 3396940		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	49.90	0	89.9	54.2	135			
Surr: DNOP	5.6		4.990		112	69	147			

Sample ID: 2301707-001AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: WS23-163 0-4ft	Batch ID: 72705		RunNo: 94064							
Prep Date: 1/19/2023	Analysis Date: 1/19/2023		SeqNo: 3396941		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.8	48.92	0	93.3	54.2	135	1.77	29.2	
Surr: DNOP	5.4		4.892		111	69	147	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301707

24-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2310707-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BatchQC	Batch ID: R94070		RunNo: 94070							
Prep Date:	Analysis Date: 1/19/2023		SeqNo: 3395917		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.3	21.31	0	93.7	70	130			
Surr: BFB	1700		852.5		196	37.7	212			

Sample ID: 2310707-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BatchQC	Batch ID: R94070		RunNo: 94070							
Prep Date:	Analysis Date: 1/19/2023		SeqNo: 3395918		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.3	21.31	0	96.0	70	130	2.45	20	
Surr: BFB	1700		852.5		200	37.7	212	0	0	

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: R94070		RunNo: 94070							
Prep Date:	Analysis Date: 1/19/2023		SeqNo: 3396466		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	81.6	72.3	137			
Surr: BFB	1800		1000		181	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301707

24-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2310707-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BatchQC	Batch ID: BS94070	RunNo: 94070								
Prep Date:	Analysis Date: 1/19/2023	SeqNo: 3395930	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.73	0.023	0.9311	0	78.6	68.8	120			
Toluene	0.78	0.047	0.9311	0	83.5	73.6	124			
Ethylbenzene	0.79	0.047	0.9311	0	84.3	72.7	129			
Xylenes, Total	2.4	0.093	2.793	0	84.7	75.7	126			
Surr: 4-Bromofluorobenzene	0.92		0.9311		98.5	70	130			

Sample ID: 2310707-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BatchQC	Batch ID: BS94070	RunNo: 94070								
Prep Date:	Analysis Date: 1/19/2023	SeqNo: 3395931	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.023	0.9311	0	95.7	68.8	120	19.6	20	
Toluene	0.96	0.047	0.9311	0	103	73.6	124	21.0	20	R
Ethylbenzene	0.97	0.047	0.9311	0	104	72.7	129	21.1	20	R
Xylenes, Total	2.9	0.093	2.793	0	104	75.7	126	20.9	20	R
Surr: 4-Bromofluorobenzene	0.93		0.9311		99.8	70	130	0	0	

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: BS94070	RunNo: 94070								
Prep Date:	Analysis Date: 1/19/2023	SeqNo: 3396467	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	83.4	80	120			
Toluene	0.89	0.050	1.000	0	89.0	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.9	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: **Vertex Resources Services, Inc.** Work Order Number: **2301707** RcptNo: **1**

Received By: **Juan Rojas** 1/19/2023 7:20:00 AM *Juan Rojas*
Completed By: **Sean Livingston** 1/19/2023 7:56:12 AM *Sean Livingston*
Reviewed By: *JA 1-19-23*

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: *Julia/23*

Special Handling (if applicable)

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

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Not Present	Morty		

Chain-of-Custody Record

Client: EOG Resources
 (Vertex)
 Mailing Address: Office

Phone #: _____
 email or Fax#: _____
 QA/QC Package: Level 4 (Full Validation)

Accreditation: Az Compliance
 NELAC Other
 EDD (Type) _____

Turn-Around Time:
 Standard Rush Yttr
 Project Name:
Daytona EL Battery
 Project #:
NE-00123-01

Project Manager:
Chance Ditoro
 Sampler: Fernando Rodriguez
 On Ice: Yes No
 # of Coolers: 1 Warty
 Cooler Temp (including CF): 12.0 = 12 (°C)

Container Type and #
 Preservative Type
 HEAL No.
2301707

Date	Time	Matrix	Sample Name
4/17	11:00	Soil	WS23-163 0-4FT WRT JW
4/17	11:05	Soil	WS23-165 0-4FT WRT JW
4/17	11:10	Soil	WS23-166 0-4FT WRT JW

Date	Time	Relinquished by:	Relinquished by:
4/17	11:30	<u>[Signature]</u>	<u>[Signature]</u>
4/18/23	19:00	<u>[Signature]</u>	<u>[Signature]</u>

Received by: [Signature] Date: 4/18/23 Time: 7:00
 Received by: [Signature] Date: 4/19/23 Time: 7:20
 Via: courier



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

Analysis Request	
TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCBs
EDB (Method 504.1)	PAHs by 8310 or 8270SIMS
RCRA 8 Metals	(C,F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄)
8260 (VOA)	8270 (Semi-VOA)
Total Coliform (Present/Absent)	

Remarks:
CC: Chance Ditoro
Fernando Rodriguez
Direct Bill to EOG



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

January 25, 2023

Chance Dixon

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: Dayton ER Battery

OrderNo.: 2301814

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/21/2023 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,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2301814**

Date Reported: **1/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-176 0-4ft

Project: Dayton ER Battery

Collection Date: 1/19/2023 1:00:00 PM

Lab ID: 2301814-001

Matrix: SOIL

Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/23/2023 9:47:25 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/23/2023 9:47:25 PM
Surr: DNOP	105	69-147		%Rec	1	1/23/2023 9:47:25 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	1/24/2023 2:28:00 PM
Surr: BFB	92.9	37.7-212		%Rec	1	1/24/2023 2:28:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.022		mg/Kg	1	1/24/2023 2:28:00 PM
Toluene	ND	0.044		mg/Kg	1	1/24/2023 2:28:00 PM
Ethylbenzene	ND	0.044		mg/Kg	1	1/24/2023 2:28:00 PM
Xylenes, Total	ND	0.089		mg/Kg	1	1/24/2023 2:28:00 PM
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	1/24/2023 2:28:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	260	60		mg/Kg	20	1/24/2023 4:15:39 AM

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

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

Analytical Report

Lab Order **2301814**

Date Reported: **1/25/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-177 0-4ft

Project: Dayton ER Battery

Collection Date: 1/19/2023 1:05:00 PM

Lab ID: 2301814-002

Matrix: SOIL

Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/23/2023 9:58:01 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/23/2023 9:58:01 PM
Surr: DNOP	102	69-147		%Rec	1	1/23/2023 9:58:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	1/24/2023 2:48:00 PM
Surr: BFB	98.3	37.7-212		%Rec	1	1/24/2023 2:48:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.022		mg/Kg	1	1/24/2023 2:48:00 PM
Toluene	ND	0.044		mg/Kg	1	1/24/2023 2:48:00 PM
Ethylbenzene	ND	0.044		mg/Kg	1	1/24/2023 2:48:00 PM
Xylenes, Total	ND	0.088		mg/Kg	1	1/24/2023 2:48:00 PM
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	1/24/2023 2:48:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	85	60		mg/Kg	20	1/24/2023 4:27:59 AM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301814

25-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-72764	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72764	RunNo: 94135								
Prep Date: 1/23/2023	Analysis Date: 1/23/2023	SeqNo: 3399030	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72764	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72764	RunNo: 94135								
Prep Date: 1/23/2023	Analysis Date: 1/23/2023	SeqNo: 3399031	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301814

25-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2301814-002AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS23-177 0-4ft	Batch ID: 72756	RunNo: 94119								
Prep Date: 1/23/2023	Analysis Date: 1/23/2023	SeqNo: 3399131	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.9	49.31	0	80.6	54.2	135			
Surr: DNOP	5.2		4.931		106	69	147			

Sample ID: 2301814-002AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WS23-177 0-4ft	Batch ID: 72756	RunNo: 94119								
Prep Date: 1/23/2023	Analysis Date: 1/23/2023	SeqNo: 3399132	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.7	48.45	0	87.4	54.2	135	6.34	29.2	
Surr: DNOP	5.3		4.845		110	69	147	0	0	

Sample ID: LCS-72756	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72756	RunNo: 94119								
Prep Date: 1/23/2023	Analysis Date: 1/23/2023	SeqNo: 3399137	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	88.6	61.9	130			
Surr: DNOP	5.5		5.000		109	69	147			

Sample ID: MB-72756	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72756	RunNo: 94119								
Prep Date: 1/23/2023	Analysis Date: 1/23/2023	SeqNo: 3399141	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301814

25-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: GS94152		RunNo: 94152							
Prep Date:	Analysis Date: 1/24/2023		SeqNo: 3399693		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	93.6	72.3	137			
Surr: BFB	2200		1000		222	37.7	212			S

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: GS94152		RunNo: 94152							
Prep Date:	Analysis Date: 1/24/2023		SeqNo: 3399695		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		103	37.7	212			

Sample ID: 2301814-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WS23-176 0-4ft	Batch ID: GS94152		RunNo: 94152							
Prep Date:	Analysis Date: 1/24/2023		SeqNo: 3400150		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.4	22.16	0	91.7	70	130			
Surr: BFB	1800		886.5		209	37.7	212			

Sample ID: 2301814-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WS23-176 0-4ft	Batch ID: GS94152		RunNo: 94152							
Prep Date:	Analysis Date: 1/24/2023		SeqNo: 3400151		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.4	22.16	0	86.5	70	130	5.83	20	
Surr: BFB	1800		886.5		201	37.7	212	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301814

25-Jan-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: BS94152	RunNo: 94152								
Prep Date:	Analysis Date: 1/24/2023	SeqNo: 3399694	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.2	80	120			
Toluene	0.94	0.050	1.000	0	93.9	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: BS94152	RunNo: 94152								
Prep Date:	Analysis Date: 1/24/2023	SeqNo: 3399696	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: 2301814-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: WS23-177 0-4ft	Batch ID: BS94152	RunNo: 94152								
Prep Date:	Analysis Date: 1/24/2023	SeqNo: 3400361	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.77	0.022	0.8834	0	87.1	68.8	120			
Toluene	0.81	0.044	0.8834	0	91.3	73.6	124			
Ethylbenzene	0.81	0.044	0.8834	0	91.3	72.7	129			
Xylenes, Total	2.4	0.088	2.650	0	91.1	75.7	126			
Surr: 4-Bromofluorobenzene	0.80		0.8834		90.3	70	130			

Sample ID: 2301814-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: WS23-177 0-4ft	Batch ID: BS94152	RunNo: 94152								
Prep Date:	Analysis Date: 1/24/2023	SeqNo: 3400362	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.72	0.022	0.8834	0	81.0	68.8	120	7.29	20	
Toluene	0.75	0.044	0.8834	0	85.0	73.6	124	7.15	20	
Ethylbenzene	0.76	0.044	0.8834	0	85.7	72.7	129	6.28	20	
Xylenes, Total	2.3	0.088	2.650	0	85.3	75.7	126	6.54	20	
Surr: 4-Bromofluorobenzene	0.79		0.8834		89.6	70	130	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 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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2301814 RcptNo: 1

Received By: Juan Rojas 1/21/2023 10:30:00 AM
Completed By: Juan Rojas 1/21/2023 10:51:56 AM
Reviewed By: [Signature] 1-21-23 1-23-23

Chain of Custody

- 1. Is Chain of Custody complete? Yes [] No [x] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: JN/21/23

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [x]

Person Notified: [] Date []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:
Missing phone number and email address. JR 1/21/23

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 0.3, Good, No, Morty, [], []



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

February 02, 2023

Chance Dixon

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Dayton ER Battery

OrderNo.: 2301A28

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 10 sample(s) on 1/27/2023 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2301A28**

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES23-184 0-4'

Project: Dayton ER Battery

Collection Date: 1/25/2023 9:30:00 AM

Lab ID: 2301A28-001

Matrix: SOIL

Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/31/2023 2:20:32 PM
Motor Oil Range Organics (MRO)	130	47		mg/Kg	1	1/31/2023 2:20:32 PM
Surr: DNOP	109	69-147		%Rec	1	1/31/2023 2:20:32 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	1/30/2023 6:44:47 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	1/30/2023 6:09:00 PM
Toluene	ND	0.049		mg/Kg	1	1/30/2023 6:09:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/30/2023 6:09:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/30/2023 6:09:00 PM
Surr: 1,2-Dichloroethane-d4	128	70-130		%Rec	1	1/30/2023 6:09:00 PM
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	1/30/2023 6:09:00 PM
Surr: Dibromofluoromethane	110	70-130		%Rec	1	1/30/2023 6:09:00 PM
Surr: Toluene-d8	108	70-130		%Rec	1	1/30/2023 6:09:00 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/30/2023 6:09:00 PM
Surr: BFB	111	70-130		%Rec	1	1/30/2023 6:09:00 PM

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

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

Analytical Report

Lab Order **2301A28**

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES23-185 0-4'

Project: Dayton ER Battery

Collection Date: 1/25/2023 9:21:00 AM

Lab ID: 2301A28-002

Matrix: SOIL

Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/30/2023 8:01:30 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/30/2023 8:01:30 PM
Surr: DNOP	97.9	69-147		%Rec	1	1/30/2023 8:01:30 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	920	60		mg/Kg	20	1/30/2023 6:57:39 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	1/30/2023 6:36:06 PM
Toluene	ND	0.048		mg/Kg	1	1/30/2023 6:36:06 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/30/2023 6:36:06 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/30/2023 6:36:06 PM
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	1/30/2023 6:36:06 PM
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	1/30/2023 6:36:06 PM
Surr: Dibromofluoromethane	117	70-130		%Rec	1	1/30/2023 6:36:06 PM
Surr: Toluene-d8	109	70-130		%Rec	1	1/30/2023 6:36:06 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/30/2023 6:36:06 PM
Surr: BFB	112	70-130		%Rec	1	1/30/2023 6:36:06 PM

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

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

Analytical Report

Lab Order **2301A28**

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES23-190 0-4'

Project: Dayton ER Battery

Collection Date: 1/25/2023 1:11:00 PM

Lab ID: 2301A28-003

Matrix: SOIL

Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/30/2023 8:12:09 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/30/2023 8:12:09 PM
Surr: DNOP	92.5	69-147		%Rec	1	1/30/2023 8:12:09 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	1100	60		mg/Kg	20	1/30/2023 7:10:30 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	1/30/2023 7:03:16 PM
Toluene	ND	0.048		mg/Kg	1	1/30/2023 7:03:16 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/30/2023 7:03:16 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/30/2023 7:03:16 PM
Surr: 1,2-Dichloroethane-d4	132	70-130	S	%Rec	1	1/30/2023 7:03:16 PM
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	1/30/2023 7:03:16 PM
Surr: Dibromofluoromethane	119	70-130		%Rec	1	1/30/2023 7:03:16 PM
Surr: Toluene-d8	112	70-130		%Rec	1	1/30/2023 7:03:16 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/30/2023 7:03:16 PM
Surr: BFB	102	70-130		%Rec	1	1/30/2023 7:03:16 PM

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

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

Analytical Report

Lab Order **2301A28**

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-12 4'

Project: Dayton ER Battery

Collection Date: 1/25/2023 11:22:00 AM

Lab ID: 2301A28-004

Matrix: SOIL

Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	27	9.7		mg/Kg	1	1/30/2023 8:22:48 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/30/2023 8:22:48 PM
Surr: DNOP	100	69-147		%Rec	1	1/30/2023 8:22:48 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	650	60		mg/Kg	20	1/30/2023 7:23:22 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	1/30/2023 7:30:26 PM
Toluene	ND	0.050		mg/Kg	1	1/30/2023 7:30:26 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/30/2023 7:30:26 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/30/2023 7:30:26 PM
Surr: 1,2-Dichloroethane-d4	119	70-130		%Rec	1	1/30/2023 7:30:26 PM
Surr: 4-Bromofluorobenzene	110	70-130		%Rec	1	1/30/2023 7:30:26 PM
Surr: Dibromofluoromethane	110	70-130		%Rec	1	1/30/2023 7:30:26 PM
Surr: Toluene-d8	109	70-130		%Rec	1	1/30/2023 7:30:26 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/30/2023 7:30:26 PM
Surr: BFB	111	70-130		%Rec	1	1/30/2023 7:30:26 PM

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

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

Analytical Report

Lab Order **2301A28**

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-13 4'

Project: Dayton ER Battery

Collection Date: 1/25/2023 11:30:00 AM

Lab ID: 2301A28-005

Matrix: SOIL

Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/30/2023 8:33:29 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/30/2023 8:33:29 PM
Surr: DNOP	98.8	69-147		%Rec	1	1/30/2023 8:33:29 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	720	60		mg/Kg	20	1/30/2023 8:01:58 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	1/30/2023 7:57:35 PM
Toluene	ND	0.049		mg/Kg	1	1/30/2023 7:57:35 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/30/2023 7:57:35 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/30/2023 7:57:35 PM
Surr: 1,2-Dichloroethane-d4	121	70-130		%Rec	1	1/30/2023 7:57:35 PM
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	1/30/2023 7:57:35 PM
Surr: Dibromofluoromethane	118	70-130		%Rec	1	1/30/2023 7:57:35 PM
Surr: Toluene-d8	109	70-130		%Rec	1	1/30/2023 7:57:35 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/30/2023 7:57:35 PM
Surr: BFB	110	70-130		%Rec	1	1/30/2023 7:57:35 PM

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

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

Analytical Report

Lab Order **2301A28**

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-14 4'

Project: Dayton ER Battery

Collection Date: 1/25/2023 11:25:00 AM

Lab ID: 2301A28-006

Matrix: SOIL

Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/30/2023 8:44:10 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/30/2023 8:44:10 PM
Surr: DNOP	103	69-147		%Rec	1	1/30/2023 8:44:10 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	740	60		mg/Kg	20	1/30/2023 8:14:50 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	1/30/2023 8:24:43 PM
Toluene	ND	0.049		mg/Kg	1	1/30/2023 8:24:43 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/30/2023 8:24:43 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/30/2023 8:24:43 PM
Surr: 1,2-Dichloroethane-d4	133	70-130	S	%Rec	1	1/30/2023 8:24:43 PM
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	1/30/2023 8:24:43 PM
Surr: Dibromofluoromethane	118	70-130		%Rec	1	1/30/2023 8:24:43 PM
Surr: Toluene-d8	108	70-130		%Rec	1	1/30/2023 8:24:43 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/30/2023 8:24:43 PM
Surr: BFB	106	70-130		%Rec	1	1/30/2023 8:24:43 PM

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

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

Analytical Report

Lab Order **2301A28**

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-15 4'

Project: Dayton ER Battery

Collection Date: 1/25/2023 11:39:00 AM

Lab ID: 2301A28-007

Matrix: SOIL

Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/30/2023 8:54:48 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/30/2023 8:54:48 PM
Surr: DNOP	103	69-147		%Rec	1	1/30/2023 8:54:48 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	230	60		mg/Kg	20	1/30/2023 9:44:54 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	1/30/2023 8:51:52 PM
Toluene	ND	0.049		mg/Kg	1	1/30/2023 8:51:52 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/30/2023 8:51:52 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/30/2023 8:51:52 PM
Surr: 1,2-Dichloroethane-d4	131	70-130	S	%Rec	1	1/30/2023 8:51:52 PM
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	1/30/2023 8:51:52 PM
Surr: Dibromofluoromethane	115	70-130		%Rec	1	1/30/2023 8:51:52 PM
Surr: Toluene-d8	109	70-130		%Rec	1	1/30/2023 8:51:52 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/30/2023 8:51:52 PM
Surr: BFB	113	70-130		%Rec	1	1/30/2023 8:51:52 PM

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

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

Analytical Report

Lab Order **2301A28**

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-16 4'

Project: Dayton ER Battery

Collection Date: 1/25/2023 11:45:00 AM

Lab ID: 2301A28-008

Matrix: SOIL

Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/30/2023 9:05:27 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/30/2023 9:05:27 PM
Surr: DNOP	105	69-147		%Rec	1	1/30/2023 9:05:27 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	300	60		mg/Kg	20	1/30/2023 9:57:45 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	1/31/2023 1:21:54 AM
Toluene	ND	0.047		mg/Kg	1	1/31/2023 1:21:54 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/31/2023 1:21:54 AM
Xylenes, Total	ND	0.093		mg/Kg	1	1/31/2023 1:21:54 AM
Surr: 1,2-Dichloroethane-d4	122	70-130		%Rec	1	1/31/2023 1:21:54 AM
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	1/31/2023 1:21:54 AM
Surr: Dibromofluoromethane	108	70-130		%Rec	1	1/31/2023 1:21:54 AM
Surr: Toluene-d8	109	70-130		%Rec	1	1/31/2023 1:21:54 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/31/2023 1:21:54 AM
Surr: BFB	110	70-130		%Rec	1	1/31/2023 1:21:54 AM

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

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

Analytical Report

Lab Order **2301A28**

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-17 4'

Project: Dayton ER Battery

Collection Date: 1/25/2023 11:49:00 AM

Lab ID: 2301A28-009

Matrix: SOIL

Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/31/2023 1:59:16 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/31/2023 1:59:16 PM
Surr: DNOP	99.0	69-147		%Rec	1	1/31/2023 1:59:16 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	390	60		mg/Kg	20	1/30/2023 10:10:37 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	1/31/2023 1:48:44 AM
Toluene	ND	0.046		mg/Kg	1	1/31/2023 1:48:44 AM
Ethylbenzene	ND	0.046		mg/Kg	1	1/31/2023 1:48:44 AM
Xylenes, Total	ND	0.093		mg/Kg	1	1/31/2023 1:48:44 AM
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	1/31/2023 1:48:44 AM
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	1/31/2023 1:48:44 AM
Surr: Dibromofluoromethane	104	70-130		%Rec	1	1/31/2023 1:48:44 AM
Surr: Toluene-d8	107	70-130		%Rec	1	1/31/2023 1:48:44 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/31/2023 1:48:44 AM
Surr: BFB	107	70-130		%Rec	1	1/31/2023 1:48:44 AM

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

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

Analytical Report

Lab Order **2301A28**

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-18 4'

Project: Dayton ER Battery

Collection Date: 1/25/2023 11:52:00 AM

Lab ID: 2301A28-010

Matrix: SOIL

Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/31/2023 2:09:55 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/31/2023 2:09:55 PM
Surr: DNOP	96.9	69-147		%Rec	1	1/31/2023 2:09:55 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	830	60		mg/Kg	20	1/30/2023 10:23:28 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	1/31/2023 2:15:36 AM
Toluene	ND	0.049		mg/Kg	1	1/31/2023 2:15:36 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/31/2023 2:15:36 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/31/2023 2:15:36 AM
Surr: 1,2-Dichloroethane-d4	128	70-130		%Rec	1	1/31/2023 2:15:36 AM
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	1/31/2023 2:15:36 AM
Surr: Dibromofluoromethane	106	70-130		%Rec	1	1/31/2023 2:15:36 AM
Surr: Toluene-d8	106	70-130		%Rec	1	1/31/2023 2:15:36 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/31/2023 2:15:36 AM
Surr: BFB	107	70-130		%Rec	1	1/31/2023 2:15:36 AM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301A28

02-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-72897	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72897	RunNo: 94284								
Prep Date: 1/30/2023	Analysis Date: 1/30/2023	SeqNo: 3406221	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72897	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72897	RunNo: 94284								
Prep Date: 1/30/2023	Analysis Date: 1/30/2023	SeqNo: 3406222	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	90	110			

Sample ID: MB-72900	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72900	RunNo: 94284								
Prep Date: 1/30/2023	Analysis Date: 1/30/2023	SeqNo: 3406251	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72900	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72900	RunNo: 94284								
Prep Date: 1/30/2023	Analysis Date: 1/30/2023	SeqNo: 3406252	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301A28

02-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-72885	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 72885		RunNo: 94266							
Prep Date: 1/30/2023	Analysis Date: 1/30/2023		SeqNo: 3405588		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	13		10.00		131	69	147			

Sample ID: LCS-72885	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 72885		RunNo: 94266							
Prep Date: 1/30/2023	Analysis Date: 1/30/2023		SeqNo: 3405589		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	10	50.00	0	78.8	61.9	130			
Surr: DNOP	5.1		5.000		103	69	147			

Sample ID: LCS-72892	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 72892		RunNo: 94303							
Prep Date: 1/30/2023	Analysis Date: 1/31/2023		SeqNo: 3406296		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	88.2	61.9	130			
Surr: DNOP	5.1		5.000		101	69	147			

Sample ID: MB-72892	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 72892		RunNo: 94303							
Prep Date: 1/30/2023	Analysis Date: 1/31/2023		SeqNo: 3406299		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	9.8		10.00		98.3	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301A28

02-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2301a28-002ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: WES23-185 0-4'	Batch ID: 72876	RunNo: 94292								
Prep Date: 1/27/2023	Analysis Date: 1/30/2023	SeqNo: 3405787	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	0.9804	0	88.6	75.8	123			
Toluene	0.98	0.049	0.9804	0	100	68.3	130			
Ethylbenzene	0.97	0.049	0.9804	0	99.3	76.6	132			
Xylenes, Total	3.0	0.098	2.941	0	103	74.7	132			
Surr: 1,2-Dichloroethane-d4	0.60		0.4902		122	70	130			
Surr: 4-Bromofluorobenzene	0.54		0.4902		110	70	130			
Surr: Dibromofluoromethane	0.51		0.4902		104	70	130			
Surr: Toluene-d8	0.53		0.4902		108	70	130			

Sample ID: 2301a28-002amsd	SampType: MSD4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: WES23-185 0-4'	Batch ID: 72876	RunNo: 94292								
Prep Date: 1/27/2023	Analysis Date: 1/30/2023	SeqNo: 3405788	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.024	0.9785	0	91.0	75.8	123	2.47	20	
Toluene	1.0	0.049	0.9785	0	107	68.3	130	6.35	20	
Ethylbenzene	1.0	0.049	0.9785	0	105	76.6	132	5.88	20	
Xylenes, Total	3.2	0.098	2.935	0	110	74.7	132	6.75	20	
Surr: 1,2-Dichloroethane-d4	0.57		0.4892		116	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.61		0.4892		125	70	130	0	0	
Surr: Dibromofluoromethane	0.51		0.4892		105	70	130	0	0	
Surr: Toluene-d8	0.54		0.4892		111	70	130	0	0	

Sample ID: LCS-72876	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 72876	RunNo: 94292								
Prep Date: 1/27/2023	Analysis Date: 1/30/2023	SeqNo: 3405799	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.7	80	120			
Toluene	0.96	0.050	1.000	0	96.0	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.2	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 1,2-Dichloroethane-d4	0.59		0.5000		117	70	130			
Surr: 4-Bromofluorobenzene	0.54		0.5000		109	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		107	70	130			
Surr: Toluene-d8	0.52		0.5000		104	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301A28

02-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: mb-72876	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 72876	RunNo: 94292								
Prep Date: 1/27/2023	Analysis Date: 1/30/2023	SeqNo: 3405800			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.60		0.5000		119	70	130			
Surr: 4-Bromofluorobenzene	0.54		0.5000		109	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.51		0.5000		103	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301A28

02-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: 2301a28-001ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: WES23-184 0-4'	Batch ID: 72876	RunNo: 94292								
Prep Date: 1/27/2023	Analysis Date: 1/30/2023	SeqNo: 3405761	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.37	0	93.9	65.9	123			
Surr: BFB	550		487.3		113	70	130			

Sample ID: 2301a28-001amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: WES23-184 0-4'	Batch ID: 72876	RunNo: 94292								
Prep Date: 1/27/2023	Analysis Date: 1/30/2023	SeqNo: 3405762	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.46	0	94.2	65.9	123	0.773	20	
Surr: BFB	530		489.2		108	70	130	0	0	

Sample ID: LCS-72876	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 72876	RunNo: 94292								
Prep Date: 1/27/2023	Analysis Date: 1/30/2023	SeqNo: 3405775	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	116	70	130			
Surr: BFB	580		500.0		116	70	130			

Sample ID: mb-72876	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 72876	RunNo: 94292								
Prep Date: 1/27/2023	Analysis Date: 1/30/2023	SeqNo: 3405776	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	520		500.0		103	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2301A28 RcptNo: 1

Received By: Juan Rojas 1/27/2023 7:25:00 AM

Completed By: Tracy Casarrubias 1/27/2023 8:02:42 AM

Reviewed By: WPC 1-27-23

Chain of Custody

1. Is Chain of Custody complete? Yes [checked] No [] Not Present []

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes [checked] No [] NA []

4. Were all samples received at a temperature of >0° C to 6.0°C Yes [checked] No [] NA []

5. Sample(s) in proper container(s)? Yes [checked] No []

6. Sufficient sample volume for indicated test(s)? Yes [checked] No []

7. Are samples (except VOA and ONG) properly preserved? Yes [checked] No []

8. Was preservative added to bottles? Yes [] No [checked] NA []

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [checked]

10. Were any sample containers received broken? Yes [] No [checked]

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes [checked] No []

12. Are matrices correctly identified on Chain of Custody? Yes [checked] No []

13. Is it clear what analyses were requested? Yes [checked] No []

14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes [checked] No []

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: JH 1-27-23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: Date: By Whom: Via: [] eMail [] Phone [] Fax [] In Person Regarding: Client Instructions:

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Rows 1 and 2.



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

February 01, 2023

Chance Dixon

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

RE: Dayton ER Battery

OrderNo.: 2301A83

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 12 sample(s) on 1/28/2023 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,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2301A83**

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-19 4'

Project: Dayton ER Battery

Collection Date: 1/26/2023 9:57:00 AM

Lab ID: 2301A83-001

Matrix: SOIL

Received Date: 1/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/30/2023 5:22:03 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/30/2023 5:22:03 PM
Surr: DNOP	108	69-147		%Rec	1	1/30/2023 5:22:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/30/2023 7:26:00 AM
Surr: BFB	75.5	37.7-212		%Rec	1	1/30/2023 7:26:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/30/2023 7:26:00 AM
Toluene	ND	0.049		mg/Kg	1	1/30/2023 7:26:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/30/2023 7:26:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/30/2023 7:26:00 AM
Surr: 4-Bromofluorobenzene	78.8	70-130		%Rec	1	1/30/2023 7:26:00 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	690	60		mg/Kg	20	1/30/2023 10:36:20 PM

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

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

Analytical Report

Lab Order **2301A83**

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-20 4'

Project: Dayton ER Battery

Collection Date: 1/26/2023 10:01:00 AM

Lab ID: 2301A83-002

Matrix: SOIL

Received Date: 1/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/30/2023 5:53:54 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/30/2023 5:53:54 PM
Surr: DNOP	107	69-147		%Rec	1	1/30/2023 5:53:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/30/2023 11:43:00 AM
Surr: BFB	104	37.7-212		%Rec	1	1/30/2023 11:43:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/30/2023 11:43:00 AM
Toluene	ND	0.050		mg/Kg	1	1/30/2023 11:43:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/30/2023 11:43:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/30/2023 11:43:00 AM
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	1/30/2023 11:43:00 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	430	60		mg/Kg	20	1/30/2023 10:49:12 PM

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

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

Analytical Report

Lab Order **2301A83**

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-21 4'

Project: Dayton ER Battery

Collection Date: 1/26/2023 10:07:00 AM

Lab ID: 2301A83-003

Matrix: SOIL

Received Date: 1/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/30/2023 6:04:39 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/30/2023 6:04:39 PM
Surr: DNOP	109	69-147		%Rec	1	1/30/2023 6:04:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/30/2023 12:03:00 PM
Surr: BFB	106	37.7-212		%Rec	1	1/30/2023 12:03:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/30/2023 12:03:00 PM
Toluene	ND	0.049		mg/Kg	1	1/30/2023 12:03:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/30/2023 12:03:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/30/2023 12:03:00 PM
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	1/30/2023 12:03:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	380	61		mg/Kg	20	1/30/2023 11:27:47 PM

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

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

Analytical Report

Lab Order **2301A83**

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-22 4'

Project: Dayton ER Battery

Collection Date: 1/26/2023 10:14:00 AM

Lab ID: 2301A83-004

Matrix: SOIL

Received Date: 1/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/30/2023 6:15:23 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/30/2023 6:15:23 PM
Surr: DNOP	108	69-147		%Rec	1	1/30/2023 6:15:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/30/2023 12:22:00 PM
Surr: BFB	109	37.7-212		%Rec	1	1/30/2023 12:22:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/30/2023 12:22:00 PM
Toluene	ND	0.048		mg/Kg	1	1/30/2023 12:22:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/30/2023 12:22:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/30/2023 12:22:00 PM
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	1/30/2023 12:22:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	380	60		mg/Kg	20	1/30/2023 11:40:40 PM

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

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

Analytical Report

Lab Order **2301A83**

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-23 4'

Project: Dayton ER Battery

Collection Date: 1/26/2023 10:23:00 AM

Lab ID: 2301A83-005

Matrix: SOIL

Received Date: 1/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/30/2023 6:26:05 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/30/2023 6:26:05 PM
Surr: DNOP	108	69-147		%Rec	1	1/30/2023 6:26:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/30/2023 12:42:00 PM
Surr: BFB	103	37.7-212		%Rec	1	1/30/2023 12:42:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/30/2023 12:42:00 PM
Toluene	ND	0.049		mg/Kg	1	1/30/2023 12:42:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/30/2023 12:42:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/30/2023 12:42:00 PM
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	1/30/2023 12:42:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	270	60		mg/Kg	20	1/30/2023 11:53:32 PM

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

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

Analytical Report

Lab Order **2301A83**

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-24 4'

Project: Dayton ER Battery

Collection Date: 1/26/2023 10:29:00 AM

Lab ID: 2301A83-006

Matrix: SOIL

Received Date: 1/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/30/2023 6:36:45 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/30/2023 6:36:45 PM
Surr: DNOP	103	69-147		%Rec	1	1/30/2023 6:36:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/30/2023 1:02:00 PM
Surr: BFB	106	37.7-212		%Rec	1	1/30/2023 1:02:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/30/2023 1:02:00 PM
Toluene	ND	0.050		mg/Kg	1	1/30/2023 1:02:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/30/2023 1:02:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/30/2023 1:02:00 PM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	1/30/2023 1:02:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	220	60		mg/Kg	20	1/31/2023 12:06:23 AM

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

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

Analytical Report

Lab Order **2301A83**

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-25 4'

Project: Dayton ER Battery

Collection Date: 1/26/2023 10:35:00 AM

Lab ID: 2301A83-007

Matrix: SOIL

Received Date: 1/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/30/2023 6:47:25 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/30/2023 6:47:25 PM
Surr: DNOP	101	69-147		%Rec	1	1/30/2023 6:47:25 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/30/2023 1:22:00 PM
Surr: BFB	102	37.7-212		%Rec	1	1/30/2023 1:22:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/30/2023 1:22:00 PM
Toluene	ND	0.049		mg/Kg	1	1/30/2023 1:22:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/30/2023 1:22:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/30/2023 1:22:00 PM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	1/30/2023 1:22:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	290	60		mg/Kg	20	1/31/2023 12:19:15 AM

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

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

Analytical Report

Lab Order **2301A83**

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-26 4'

Project: Dayton ER Battery

Collection Date: 1/26/2023 10:44:00 AM

Lab ID: 2301A83-008

Matrix: SOIL

Received Date: 1/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/30/2023 6:58:03 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/30/2023 6:58:03 PM
Surr: DNOP	98.2	69-147		%Rec	1	1/30/2023 6:58:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/30/2023 1:41:00 PM
Surr: BFB	106	37.7-212		%Rec	1	1/30/2023 1:41:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/30/2023 1:41:00 PM
Toluene	ND	0.049		mg/Kg	1	1/30/2023 1:41:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/30/2023 1:41:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/30/2023 1:41:00 PM
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	1/30/2023 1:41:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	340	60		mg/Kg	20	1/31/2023 12:32:06 AM

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

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

Analytical Report

Lab Order **2301A83**

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-27 4'

Project: Dayton ER Battery

Collection Date: 1/26/2023 10:47:00 AM

Lab ID: 2301A83-009

Matrix: SOIL

Received Date: 1/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/30/2023 7:08:39 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/30/2023 7:08:39 PM
Surr: DNOP	102	69-147		%Rec	1	1/30/2023 7:08:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/30/2023 2:01:00 PM
Surr: BFB	110	37.7-212		%Rec	1	1/30/2023 2:01:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/30/2023 2:01:00 PM
Toluene	ND	0.049		mg/Kg	1	1/30/2023 2:01:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/30/2023 2:01:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/30/2023 2:01:00 PM
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	1/30/2023 2:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	120	60		mg/Kg	20	1/31/2023 12:44:59 AM

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

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

Analytical Report

Lab Order **2301A83**

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-28 4'

Project: Dayton ER Battery

Collection Date: 1/26/2023 10:52:00 AM

Lab ID: 2301A83-010

Matrix: SOIL

Received Date: 1/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/30/2023 7:19:15 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/30/2023 7:19:15 PM
Surr: DNOP	103	69-147		%Rec	1	1/30/2023 7:19:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/30/2023 2:21:00 PM
Surr: BFB	107	37.7-212		%Rec	1	1/30/2023 2:21:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/30/2023 2:21:00 PM
Toluene	ND	0.049		mg/Kg	1	1/30/2023 2:21:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/30/2023 2:21:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/30/2023 2:21:00 PM
Surr: 4-Bromofluorobenzene	107	70-130		%Rec	1	1/30/2023 2:21:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	160	60		mg/Kg	20	1/31/2023 12:57:51 AM

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

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

Analytical Report

Lab Order **2301A83**

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-29 4'

Project: Dayton ER Battery

Collection Date: 1/26/2023 10:57:00 AM

Lab ID: 2301A83-011

Matrix: SOIL

Received Date: 1/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	12	9.7		mg/Kg	1	1/30/2023 7:29:49 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/30/2023 7:29:49 PM
Surr: DNOP	109	69-147		%Rec	1	1/30/2023 7:29:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/30/2023 2:41:00 PM
Surr: BFB	102	37.7-212		%Rec	1	1/30/2023 2:41:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/30/2023 2:41:00 PM
Toluene	ND	0.049		mg/Kg	1	1/30/2023 2:41:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/30/2023 2:41:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/30/2023 2:41:00 PM
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	1/30/2023 2:41:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	620	60		mg/Kg	20	1/31/2023 1:10:43 AM

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

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

Analytical Report

Lab Order **2301A83**

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-30 4'

Project: Dayton ER Battery

Collection Date: 1/26/2023 11:01:00 AM

Lab ID: 2301A83-012

Matrix: SOIL

Received Date: 1/28/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/30/2023 7:40:22 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/30/2023 7:40:22 PM
Surr: DNOP	101	69-147		%Rec	1	1/30/2023 7:40:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/30/2023 3:20:00 PM
Surr: BFB	103	37.7-212		%Rec	1	1/30/2023 3:20:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/30/2023 3:20:00 PM
Toluene	ND	0.049		mg/Kg	1	1/30/2023 3:20:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/30/2023 3:20:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/30/2023 3:20:00 PM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	1/30/2023 3:20:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	150	60		mg/Kg	20	1/31/2023 1:23:35 AM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301A83

01-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-72900	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72900	RunNo: 94284								
Prep Date: 1/30/2023	Analysis Date: 1/30/2023	SeqNo: 3406251	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72900	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72900	RunNo: 94284								
Prep Date: 1/30/2023	Analysis Date: 1/30/2023	SeqNo: 3406252	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 standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301A83

01-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-72885	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72885	RunNo: 94266								
Prep Date: 1/30/2023	Analysis Date: 1/30/2023	SeqNo: 3405588	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	13		10.00		131	69	147			

Sample ID: LCS-72885	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72885	RunNo: 94266								
Prep Date: 1/30/2023	Analysis Date: 1/30/2023	SeqNo: 3405589	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	10	50.00	0	78.8	61.9	130			
Surr: DNOP	5.1		5.000		103	69	147			

Sample ID: 2301A83-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BES23-19 4'	Batch ID: 72885	RunNo: 94266								
Prep Date: 1/30/2023	Analysis Date: 1/30/2023	SeqNo: 3405633	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	49.75	0	80.0	54.2	135			
Surr: DNOP	5.6		4.975		112	69	147			

Sample ID: 2301A83-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BES23-19 4'	Batch ID: 72885	RunNo: 94266								
Prep Date: 1/30/2023	Analysis Date: 1/30/2023	SeqNo: 3405636	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	9.6	47.85	0	81.8	54.2	135	1.72	29.2	
Surr: DNOP	5.3		4.785		110	69	147	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301A83

01-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: ics-72881	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 72881		RunNo: 94256							
Prep Date: 1/28/2023	Analysis Date: 1/30/2023		SeqNo: 3405019		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	72.3	137			
Surr: BFB	1900		1000		192	37.7	212			

Sample ID: mb-72881	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 72881		RunNo: 94256							
Prep Date: 1/28/2023	Analysis Date: 1/30/2023		SeqNo: 3405020		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		115	37.7	212			

Sample ID: 2301A83-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BES23-19 4'	Batch ID: 72881		RunNo: 94256							
Prep Date: 1/28/2023	Analysis Date: 1/30/2023		SeqNo: 3405659		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	24.90	0	106	70	130			
Surr: BFB	1200		996.0		116	37.7	212			

Sample ID: 2301A83-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BES23-19 4'	Batch ID: 72881		RunNo: 94256							
Prep Date: 1/28/2023	Analysis Date: 1/30/2023		SeqNo: 3405660		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	24.95	0	119	70	130	11.7	20	
Surr: BFB	1300		998.0		129	37.7	212	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301A83

01-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: ics-72881	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72881		RunNo: 94256							
Prep Date: 1/28/2023	Analysis Date: 1/30/2023		SeqNo: 3404502		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.3	80	120			
Toluene	0.97	0.050	1.000	0	97.0	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.0	80	120			
Surr: 4-Bromofluorobenzene	1.9		1.000		188	70	130			S

Sample ID: mb-72881	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72881		RunNo: 94256							
Prep Date: 1/28/2023	Analysis Date: 1/30/2023		SeqNo: 3404503		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		114	70	130			

Sample ID: 2301A83-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BES23-20 4'	Batch ID: 72881		RunNo: 94256							
Prep Date: 1/28/2023	Analysis Date: 1/30/2023		SeqNo: 3405665		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	0.9921	0	91.2	68.8	120			
Toluene	0.92	0.050	0.9921	0	92.4	73.6	124			
Ethylbenzene	0.92	0.050	0.9921	0	92.7	72.7	129			
Xylenes, Total	2.8	0.099	2.976	0	93.3	75.7	126			
Surr: 4-Bromofluorobenzene	1.1		0.9921		108	70	130			

Sample ID: 2301A83-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BES23-20 4'	Batch ID: 72881		RunNo: 94256							
Prep Date: 1/28/2023	Analysis Date: 1/30/2023		SeqNo: 3405666		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	0.9804	0	93.7	68.8	120	1.54	20	
Toluene	0.94	0.049	0.9804	0	95.7	73.6	124	2.33	20	
Ethylbenzene	0.94	0.049	0.9804	0	96.2	72.7	129	2.52	20	
Xylenes, Total	2.8	0.098	2.941	0	96.8	75.7	126	2.57	20	
Surr: 4-Bromofluorobenzene	1.1		0.9804		107	70	130	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 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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2301A83 RcptNo: 1

Received By: Tracy Casarrubias 1/28/2023 8:00:00 AM
Completed By: Tracy Casarrubias 1/28/2023 10:11:54 AM
Reviewed By: [Signature] 1/28/2023

Chain of Custody

- 1. Is Chain of Custody complete? Yes [] No [x] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: TME 1/28/23

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [x]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 3.4, Good, Yes, [], [], []

Chain-of-Custody Record

Client: EOG / Vertex

Mailing Address: On file

Phone #: _____

email or Fax#: _____

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

Accreditation: Az Compliance NELAC Other

EDD (Type) _____

Turn-Around Time: Standard Rush 48 hr

Project Name: Dayton ER Battery

Project#: 22-E-00123

Project Manager: Chance Dixon

Sampler: SM

On Ice: Yes No

of Coolers: _____

Cooler Temp (including CF): 33 to 34 (°C)

Container Type and # 4 oz jar ice

Preservative Type _____

HEAL No. 2301A83

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
1/26/23	9:57	Soil	BES23-19	4'	ice	001
	10:01		BES23-20	4'		002
	10:07		BES23-21	4'		003
	10:14		BES23-22	4'		004
	10:23		BES23-23	4'		005
	10:29		BES23-24	4'		006
	10:35		BES23-25	4'		007
	10:44		BES23-26	4'		008
	10:47		BES23-27	4'		009
	10:52		BES23-28	4'		010
	10:57		BES23-29	4'		011
	11:01		BES23-30	4'		012

Analysis Request

BTEX MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl₂F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Received by: [Signature] Date: 1/26/23 Time: 9:57

Relinquished by: [Signature] Date: 1/26/23 Time: 8:00

Remarks: Direct bill to : EOG

CC: SMccarty@vetex.ca pg 1 of 1



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

February 06, 2023

Chance Dixon

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Dayton ER Battery

OrderNo.: 2301B20

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 8 sample(s) on 1/31/2023 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2301B20

Date Reported: 2/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-31 4'

Project: Dayton ER Battery

Collection Date: 1/27/2023 10:00:00 AM

Lab ID: 2301B20-001

Matrix: SOIL

Received Date: 1/31/2023 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	240	60		mg/Kg	20	2/1/2023 9:33:47 PM	72950
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/1/2023 11:13:19 AM	72922
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/1/2023 11:13:19 AM	72922
Surr: DNOP	132	69-147		%Rec	1	2/1/2023 11:13:19 AM	72922
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/1/2023 10:42:21 AM	72920
Surr: BFB	103	37.7-212		%Rec	1	2/1/2023 10:42:21 AM	72920
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/1/2023 10:42:21 AM	72920
Toluene	ND	0.048		mg/Kg	1	2/1/2023 10:42:21 AM	72920
Ethylbenzene	ND	0.048		mg/Kg	1	2/1/2023 10:42:21 AM	72920
Xylenes, Total	ND	0.095		mg/Kg	1	2/1/2023 10:42:21 AM	72920
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	2/1/2023 10:42:21 AM	72920

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

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

Analytical Report

Lab Order 2301B20

Date Reported: 2/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-32 4'

Project: Dayton ER Battery

Collection Date: 1/27/2023 10:08:00 AM

Lab ID: 2301B20-002

Matrix: SOIL

Received Date: 1/31/2023 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	180	60		mg/Kg	20	2/1/2023 10:11:01 PM	72950
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/1/2023 11:24:04 AM	72922
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/1/2023 11:24:04 AM	72922
Surr: DNOP	108	69-147		%Rec	1	2/1/2023 11:24:04 AM	72922
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/1/2023 11:05:45 AM	72920
Surr: BFB	101	37.7-212		%Rec	1	2/1/2023 11:05:45 AM	72920
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/1/2023 11:05:45 AM	72920
Toluene	ND	0.048		mg/Kg	1	2/1/2023 11:05:45 AM	72920
Ethylbenzene	ND	0.048		mg/Kg	1	2/1/2023 11:05:45 AM	72920
Xylenes, Total	ND	0.096		mg/Kg	1	2/1/2023 11:05:45 AM	72920
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	2/1/2023 11:05:45 AM	72920

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

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

Analytical Report

Lab Order 2301B20

Date Reported: 2/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-33 4'

Project: Dayton ER Battery

Collection Date: 1/27/2023 10:38:00 AM

Lab ID: 2301B20-003

Matrix: SOIL

Received Date: 1/31/2023 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	360	60		mg/Kg	20	2/1/2023 11:13:04 PM	72950
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/1/2023 11:34:46 AM	72922
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/1/2023 11:34:46 AM	72922
Surr: DNOP	111	69-147		%Rec	1	2/1/2023 11:34:46 AM	72922
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/1/2023 11:29:15 AM	72920
Surr: BFB	104	37.7-212		%Rec	1	2/1/2023 11:29:15 AM	72920
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/1/2023 11:29:15 AM	72920
Toluene	ND	0.049		mg/Kg	1	2/1/2023 11:29:15 AM	72920
Ethylbenzene	ND	0.049		mg/Kg	1	2/1/2023 11:29:15 AM	72920
Xylenes, Total	ND	0.098		mg/Kg	1	2/1/2023 11:29:15 AM	72920
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	2/1/2023 11:29:15 AM	72920

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

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

Analytical Report

Lab Order 2301B20

Date Reported: 2/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-34 4'

Project: Dayton ER Battery

Collection Date: 1/27/2023 10:44:00 AM

Lab ID: 2301B20-004

Matrix: SOIL

Received Date: 1/31/2023 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	280	60		mg/Kg	20	2/1/2023 11:25:29 PM	72950
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/1/2023 11:45:31 AM	72922
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/1/2023 11:45:31 AM	72922
Surr: DNOP	109	69-147		%Rec	1	2/1/2023 11:45:31 AM	72922
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/1/2023 11:52:45 AM	72920
Surr: BFB	104	37.7-212		%Rec	1	2/1/2023 11:52:45 AM	72920
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/1/2023 11:52:45 AM	72920
Toluene	ND	0.048		mg/Kg	1	2/1/2023 11:52:45 AM	72920
Ethylbenzene	ND	0.048		mg/Kg	1	2/1/2023 11:52:45 AM	72920
Xylenes, Total	ND	0.095		mg/Kg	1	2/1/2023 11:52:45 AM	72920
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	2/1/2023 11:52:45 AM	72920

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

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

Analytical Report

Lab Order 2301B20

Date Reported: 2/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-35 4'

Project: Dayton ER Battery

Collection Date: 1/27/2023 10:50:00 AM

Lab ID: 2301B20-005

Matrix: SOIL

Received Date: 1/31/2023 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	200	60		mg/Kg	20	2/1/2023 11:37:53 PM	72950
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/1/2023 11:56:13 AM	72922
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/1/2023 11:56:13 AM	72922
Surr: DNOP	104	69-147		%Rec	1	2/1/2023 11:56:13 AM	72922
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/1/2023 12:16:19 PM	72920
Surr: BFB	106	37.7-212		%Rec	1	2/1/2023 12:16:19 PM	72920
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/1/2023 12:16:19 PM	72920
Toluene	ND	0.050		mg/Kg	1	2/1/2023 12:16:19 PM	72920
Ethylbenzene	ND	0.050		mg/Kg	1	2/1/2023 12:16:19 PM	72920
Xylenes, Total	ND	0.099		mg/Kg	1	2/1/2023 12:16:19 PM	72920
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	2/1/2023 12:16:19 PM	72920

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

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

Analytical Report

Lab Order 2301B20

Date Reported: 2/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-36 4'

Project: Dayton ER Battery

Collection Date: 1/27/2023 10:55:00 AM

Lab ID: 2301B20-006

Matrix: SOIL

Received Date: 1/31/2023 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	280	60		mg/Kg	20	2/1/2023 11:50:17 PM	72950
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/1/2023 12:06:54 PM	72922
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/1/2023 12:06:54 PM	72922
Surr: DNOP	106	69-147		%Rec	1	2/1/2023 12:06:54 PM	72922
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/1/2023 12:39:45 PM	72920
Surr: BFB	106	37.7-212		%Rec	1	2/1/2023 12:39:45 PM	72920
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/1/2023 12:39:45 PM	72920
Toluene	ND	0.048		mg/Kg	1	2/1/2023 12:39:45 PM	72920
Ethylbenzene	ND	0.048		mg/Kg	1	2/1/2023 12:39:45 PM	72920
Xylenes, Total	ND	0.096		mg/Kg	1	2/1/2023 12:39:45 PM	72920
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	2/1/2023 12:39:45 PM	72920

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

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

Analytical Report

Lab Order 2301B20

Date Reported: 2/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-37 4'

Project: Dayton ER Battery

Collection Date: 1/27/2023 11:15:00 AM

Lab ID: 2301B20-007

Matrix: SOIL

Received Date: 1/31/2023 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	240	60		mg/Kg	20	2/2/2023 12:02:42 AM	72950
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	570	9.8		mg/Kg	1	2/2/2023 12:42:47 PM	72922
Motor Oil Range Organics (MRO)	670	49		mg/Kg	1	2/2/2023 12:42:47 PM	72922
Surr: DNOP	110	69-147		%Rec	1	2/2/2023 12:42:47 PM	72922
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/1/2023 1:03:21 PM	72920
Surr: BFB	108	37.7-212		%Rec	1	2/1/2023 1:03:21 PM	72920
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/1/2023 1:03:21 PM	72920
Toluene	ND	0.049		mg/Kg	1	2/1/2023 1:03:21 PM	72920
Ethylbenzene	ND	0.049		mg/Kg	1	2/1/2023 1:03:21 PM	72920
Xylenes, Total	ND	0.097		mg/Kg	1	2/1/2023 1:03:21 PM	72920
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	2/1/2023 1:03:21 PM	72920

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

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

Analytical Report

Lab Order 2301B20

Date Reported: 2/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-38 4'

Project: Dayton ER Battery

Collection Date: 1/27/2023 11:19:00 AM

Lab ID: 2301B20-008

Matrix: SOIL

Received Date: 1/31/2023 10:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	1300	60		mg/Kg	20	2/2/2023 12:15:06 AM	72950
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	21	9.0		mg/Kg	1	2/1/2023 12:17:32 PM	72922
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/1/2023 12:17:32 PM	72922
Surr: DNOP	110	69-147		%Rec	1	2/1/2023 12:17:32 PM	72922
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/1/2023 1:27:03 PM	72920
Surr: BFB	105	37.7-212		%Rec	1	2/1/2023 1:27:03 PM	72920
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/1/2023 1:27:03 PM	72920
Toluene	ND	0.048		mg/Kg	1	2/1/2023 1:27:03 PM	72920
Ethylbenzene	ND	0.048		mg/Kg	1	2/1/2023 1:27:03 PM	72920
Xylenes, Total	ND	0.096		mg/Kg	1	2/1/2023 1:27:03 PM	72920
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	2/1/2023 1:27:03 PM	72920

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301B20

06-Feb-23

Client: EOG
Project: Dayton ER Battery

Sample ID: LCS-72950	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72950	RunNo: 94351								
Prep Date: 2/1/2023	Analysis Date: 2/1/2023	SeqNo: 3408529	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.5	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301B20

06-Feb-23

Client: EOG
Project: Dayton ER Battery

Sample ID: LCS-72922	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 72922		RunNo: 94350							
Prep Date: 1/31/2023	Analysis Date: 2/1/2023		SeqNo: 3408369		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	85.5	61.9	130			
Surr: DNOP	5.4		5.000		108	69	147			

Sample ID: MB-72922	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 72922		RunNo: 94350							
Prep Date: 1/31/2023	Analysis Date: 2/1/2023		SeqNo: 3408373		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		96.2	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301B20

06-Feb-23

Client: EOG
Project: Dayton ER Battery

Sample ID: LCS-72920	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 72920		RunNo: 94333							
Prep Date: 1/31/2023	Analysis Date: 2/1/2023		SeqNo: 3407444		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	72.3	137			
Surr: BFB	1100		1000		113	37.7	212			

Sample ID: mb-72920	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 72920		RunNo: 94333							
Prep Date: 1/31/2023	Analysis Date: 2/1/2023		SeqNo: 3407445		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301B20

06-Feb-23

Client: EOG
Project: Dayton ER Battery

Sample ID: ics-72920	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72920		RunNo: 94333							
Prep Date: 1/31/2023	Analysis Date: 2/1/2023		SeqNo: 3407456		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.6	80	120			
Toluene	0.94	0.050	1.000	0	93.6	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.5	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.1	70	130			

Sample ID: mb-72920	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72920		RunNo: 94333							
Prep Date: 1/31/2023	Analysis Date: 2/1/2023		SeqNo: 3407457		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	0.93		1.000		93.4	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 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



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 2301B20

RcptNo: 1

Received By: Juan Rojas

1/31/2023 10:45:00 AM

Completed By: Desiree Dominguez

1/31/2023 8:47:33 AM

Reviewed By: JR 1/31/23

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes No NA

4. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA

5. Sample(s) in proper container(s)? Yes No

6. Sufficient sample volume for indicated test(s)? Yes No

7. Are samples (except VOA and ONG) properly preserved? Yes No

8. Was preservative added to bottles? Yes No NA

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No NA

10. Were any sample containers received broken? Yes No

11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No

12. Are matrices correctly identified on Chain of Custody? Yes No

13. Is it clear what analyses were requested? Yes No

14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: KPA 1-31-23

Special Handling (if applicable)

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

Missing client information on COC. -DAD 1/31/23

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.7	Good	Not Present	Morty		

Chain-of-Custody Record

Client: EOG / Vertex

Mailing Address: On File

Phone #: _____

email or Fax#: _____

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

Accreditation: Az Compliance NELAC Other _____

EDD (Type) _____

Turn-Around Time: Standard Rush 48 hr

Project Name: Dayton ER Battery

Project #: 22E-00123

Project Manager: Chance Dixon

Sampler: SM

On Ice: Yes No

of Coolers: 1 Moody

Cooler Temp (including CP): 0.6 to 0.7 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
1/27/23	10:00	Soil	BES23-31 4'	4oz jar	Ice	-001
	10:08		BES23-32 4'			-002
	10:38		BES23-33 4'			-003
	10:44		BES23-34 4'			-004
	10:50		BES23-35 4'			-005
	10:55		BES23-36 4'			-006
	11:15		BES23-37 4'			-007
	11:19		BES23-38 4'			-008

Date: 1/27/23 Time: 1706 Relinquished by: Steph McGet

Date: 1/30/23 Time: 1900 Relinquished by: ac

Received by: Ammy Via: _____ Date: 1/30/23 Time: 730

Received by: Tommy Via: _____ Date: 1/31/23 Time: 10:15 AM



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

Analysis Request

<input checked="" type="checkbox"/> TPH:8015D(GRO / DRO / MRO)	<input type="checkbox"/> 8081 Pesticides/8082 PCB's	<input type="checkbox"/> EDB (Method 504.1)	<input type="checkbox"/> PAHs by 8310 or 8270SIMS	<input type="checkbox"/> RCRA 8 Metals	<input checked="" type="checkbox"/> CDF, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	<input type="checkbox"/> 8260 (VOA)	<input type="checkbox"/> 8270 (Semi-VOA)	<input type="checkbox"/> Total Coliform (Present/Absent)
<input checked="" type="checkbox"/> MTBE / TMB's (8021)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Remarks: Direct bill to: EOG

Smccarty@vertex.ca Pg 1 of 1



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

February 07, 2023

Chance Dixon

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

RE: Dayton ER Battery

OrderNo.: 2302003

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 13 sample(s) on 2/1/2023 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,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2302003**

Date Reported: **2/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-39 4'

Project: Dayton ER Battery

Collection Date: 1/30/2023 9:28:00 AM

Lab ID: 2302003-001

Matrix: SOIL

Received Date: 2/1/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/3/2023 2:51:56 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/3/2023 2:51:56 PM
Surr: DNOP	115	69-147		%Rec	1	2/3/2023 2:51:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/2/2023 3:51:04 PM
Surr: BFB	105	37.7-212		%Rec	1	2/2/2023 3:51:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/2/2023 3:51:04 PM
Toluene	ND	0.048		mg/Kg	1	2/2/2023 3:51:04 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/2/2023 3:51:04 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/2/2023 3:51:04 PM
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	2/2/2023 3:51:04 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	330	60		mg/Kg	20	2/1/2023 6:53:56 PM

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

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

Analytical Report

Lab Order **2302003**

Date Reported: **2/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-40 4'

Project: Dayton ER Battery

Collection Date: 1/30/2023 9:53:00 AM

Lab ID: 2302003-002

Matrix: SOIL

Received Date: 2/1/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/3/2023 3:02:28 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/3/2023 3:02:28 PM
Surr: DNOP	110	69-147		%Rec	1	2/3/2023 3:02:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/2/2023 4:14:46 PM
Surr: BFB	105	37.7-212		%Rec	1	2/2/2023 4:14:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/2/2023 4:14:46 PM
Toluene	ND	0.049		mg/Kg	1	2/2/2023 4:14:46 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/2/2023 4:14:46 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/2/2023 4:14:46 PM
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	2/2/2023 4:14:46 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	1100	59		mg/Kg	20	2/1/2023 7:32:33 PM

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

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

Analytical Report

Lab Order **2302003**

Date Reported: **2/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-41 4'

Project: Dayton ER Battery

Collection Date: 1/30/2023 9:57:00 AM

Lab ID: 2302003-003

Matrix: SOIL

Received Date: 2/1/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/3/2023 3:13:00 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/3/2023 3:13:00 PM
Surr: DNOP	139	69-147		%Rec	1	2/3/2023 3:13:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/2/2023 4:38:25 PM
Surr: BFB	101	37.7-212		%Rec	1	2/2/2023 4:38:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/2/2023 4:38:25 PM
Toluene	ND	0.048		mg/Kg	1	2/2/2023 4:38:25 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/2/2023 4:38:25 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/2/2023 4:38:25 PM
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	2/2/2023 4:38:25 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	1700	60		mg/Kg	20	2/1/2023 7:45:25 PM

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

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

Analytical Report

Lab Order **2302003**

Date Reported: **2/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-42 4'

Project: Dayton ER Battery

Collection Date: 1/30/2023 10:01:00 AM

Lab ID: 2302003-004

Matrix: SOIL

Received Date: 2/1/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	13	9.2		mg/Kg	1	2/3/2023 3:23:32 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/3/2023 3:23:32 PM
Surr: DNOP	98.2	69-147		%Rec	1	2/3/2023 3:23:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/2/2023 5:02:01 PM
Surr: BFB	101	37.7-212		%Rec	1	2/2/2023 5:02:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/2/2023 5:02:01 PM
Toluene	ND	0.049		mg/Kg	1	2/2/2023 5:02:01 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/2/2023 5:02:01 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/2/2023 5:02:01 PM
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	2/2/2023 5:02:01 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	390	60		mg/Kg	20	2/1/2023 7:58:17 PM

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

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

Analytical Report

Lab Order **2302003**

Date Reported: **2/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-43 4'

Project: Dayton ER Battery

Collection Date: 1/30/2023 10:14:00 AM

Lab ID: 2302003-005

Matrix: SOIL

Received Date: 2/1/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	19	9.1		mg/Kg	1	2/3/2023 11:09:49 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/3/2023 11:09:49 AM
Surr: DNOP	115	69-147		%Rec	1	2/3/2023 11:09:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/2/2023 5:25:39 PM
Surr: BFB	105	37.7-212		%Rec	1	2/2/2023 5:25:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/2/2023 5:25:39 PM
Toluene	ND	0.047		mg/Kg	1	2/2/2023 5:25:39 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/2/2023 5:25:39 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/2/2023 5:25:39 PM
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	2/2/2023 5:25:39 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	320	59		mg/Kg	20	2/1/2023 8:11:08 PM

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

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

Analytical Report

Lab Order **2302003**

Date Reported: **2/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-44 4'

Project: Dayton ER Battery

Collection Date: 1/30/2023 10:18:00 AM

Lab ID: 2302003-006

Matrix: SOIL

Received Date: 2/1/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	26	9.3		mg/Kg	1	2/3/2023 11:20:19 AM
Motor Oil Range Organics (MRO)	67	47		mg/Kg	1	2/3/2023 11:20:19 AM
Surr: DNOP	114	69-147		%Rec	1	2/3/2023 11:20:19 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/2/2023 5:49:20 PM
Surr: BFB	102	37.7-212		%Rec	1	2/2/2023 5:49:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/2/2023 5:49:20 PM
Toluene	ND	0.049		mg/Kg	1	2/2/2023 5:49:20 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/2/2023 5:49:20 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/2/2023 5:49:20 PM
Surr: 4-Bromofluorobenzene	92.1	70-130		%Rec	1	2/2/2023 5:49:20 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	610	60		mg/Kg	20	2/1/2023 8:24:00 PM

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

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

Analytical Report

Lab Order **2302003**

Date Reported: **2/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-45 4'

Project: Dayton ER Battery

Collection Date: 1/30/2023 12:43:00 PM

Lab ID: 2302003-007

Matrix: SOIL

Received Date: 2/1/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	15	9.5		mg/Kg	1	2/3/2023 3:34:04 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/3/2023 3:34:04 PM
Surr: DNOP	110	69-147		%Rec	1	2/3/2023 3:34:04 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/2/2023 6:12:59 PM
Surr: BFB	103	37.7-212		%Rec	1	2/2/2023 6:12:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	2/2/2023 6:12:59 PM
Toluene	ND	0.047		mg/Kg	1	2/2/2023 6:12:59 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/2/2023 6:12:59 PM
Xylenes, Total	ND	0.094		mg/Kg	1	2/2/2023 6:12:59 PM
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	2/2/2023 6:12:59 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	760	60		mg/Kg	20	2/1/2023 8:36:52 PM

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

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

Analytical Report

Lab Order **2302003**

Date Reported: **2/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-46 4'

Project: Dayton ER Battery

Collection Date: 1/30/2023 12:46:00 PM

Lab ID: 2302003-008

Matrix: SOIL

Received Date: 2/1/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	13	9.5		mg/Kg	1	2/3/2023 10:38:08 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/3/2023 10:38:08 AM
Surr: DNOP	111	69-147		%Rec	1	2/3/2023 10:38:08 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/2/2023 7:00:25 PM
Surr: BFB	107	37.7-212		%Rec	1	2/2/2023 7:00:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/2/2023 7:00:25 PM
Toluene	ND	0.049		mg/Kg	1	2/2/2023 7:00:25 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/2/2023 7:00:25 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/2/2023 7:00:25 PM
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	2/2/2023 7:00:25 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	1200	60		mg/Kg	20	2/1/2023 8:49:44 PM

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

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

Analytical Report

Lab Order **2302003**

Date Reported: **2/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-47 4'

Project: Dayton ER Battery

Collection Date: 1/30/2023 12:54:00 PM

Lab ID: 2302003-009

Matrix: SOIL

Received Date: 2/1/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	24	9.9		mg/Kg	1	2/3/2023 11:30:52 AM
Motor Oil Range Organics (MRO)	60	49		mg/Kg	1	2/3/2023 11:30:52 AM
Surr: DNOP	114	69-147		%Rec	1	2/3/2023 11:30:52 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/2/2023 7:24:04 PM
Surr: BFB	106	37.7-212		%Rec	1	2/2/2023 7:24:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/2/2023 7:24:04 PM
Toluene	ND	0.048		mg/Kg	1	2/2/2023 7:24:04 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/2/2023 7:24:04 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/2/2023 7:24:04 PM
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	2/2/2023 7:24:04 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	950	60		mg/Kg	20	2/1/2023 9:02:37 PM

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

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

Analytical Report

Lab Order **2302003**

Date Reported: **2/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-48 4'

Project: Dayton ER Battery

Collection Date: 1/30/2023 12:48:00 PM

Lab ID: 2302003-010

Matrix: SOIL

Received Date: 2/1/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/3/2023 10:48:44 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/3/2023 10:48:44 AM
Surr: DNOP	131	69-147		%Rec	1	2/3/2023 10:48:44 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/2/2023 7:47:41 PM
Surr: BFB	102	37.7-212		%Rec	1	2/2/2023 7:47:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/2/2023 7:47:41 PM
Toluene	ND	0.049		mg/Kg	1	2/2/2023 7:47:41 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/2/2023 7:47:41 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/2/2023 7:47:41 PM
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	2/2/2023 7:47:41 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	290	60		mg/Kg	20	2/1/2023 9:15:28 PM

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

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

Analytical Report

Lab Order **2302003**

Date Reported: **2/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-49 4'

Project: Dayton ER Battery

Collection Date: 1/30/2023 1:03:00 PM

Lab ID: 2302003-011

Matrix: SOIL

Received Date: 2/1/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/3/2023 10:59:20 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/3/2023 10:59:20 AM
Surr: DNOP	116	69-147		%Rec	1	2/3/2023 10:59:20 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/2/2023 8:11:13 PM
Surr: BFB	105	37.7-212		%Rec	1	2/2/2023 8:11:13 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/2/2023 8:11:13 PM
Toluene	ND	0.049		mg/Kg	1	2/2/2023 8:11:13 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/2/2023 8:11:13 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/2/2023 8:11:13 PM
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	2/2/2023 8:11:13 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	110	60		mg/Kg	20	2/1/2023 9:28:20 PM

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

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

Analytical Report

Lab Order **2302003**

Date Reported: **2/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-50 4'

Project: Dayton ER Battery

Collection Date: 1/30/2023 1:08:00 PM

Lab ID: 2302003-012

Matrix: SOIL

Received Date: 2/1/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	170	9.7		mg/Kg	1	2/3/2023 11:41:20 AM
Motor Oil Range Organics (MRO)	140	49		mg/Kg	1	2/3/2023 11:41:20 AM
Surr: DNOP	122	69-147		%Rec	1	2/3/2023 11:41:20 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/2/2023 8:34:48 PM
Surr: BFB	103	37.7-212		%Rec	1	2/2/2023 8:34:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/2/2023 8:34:48 PM
Toluene	ND	0.050		mg/Kg	1	2/2/2023 8:34:48 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/2/2023 8:34:48 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/2/2023 8:34:48 PM
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	2/2/2023 8:34:48 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	610	60		mg/Kg	20	2/1/2023 10:06:56 PM

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

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

Analytical Report

Lab Order **2302003**

Date Reported: **2/7/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES23-191

Project: Dayton ER Battery

Collection Date: 1/30/2023 11:30:00 AM

Lab ID: 2302003-013

Matrix: SOIL

Received Date: 2/1/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	14	9.7		mg/Kg	1	2/3/2023 11:51:50 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/3/2023 11:51:50 AM
Surr: DNOP	126	69-147		%Rec	1	2/3/2023 11:51:50 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/2/2023 8:58:22 PM
Surr: BFB	104	37.7-212		%Rec	1	2/2/2023 8:58:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/2/2023 8:58:22 PM
Toluene	ND	0.049		mg/Kg	1	2/2/2023 8:58:22 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/2/2023 8:58:22 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/2/2023 8:58:22 PM
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	2/2/2023 8:58:22 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	350	60		mg/Kg	20	2/1/2023 10:19:48 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302003

07-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-72955	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72955	RunNo: 94345								
Prep Date: 2/1/2023	Analysis Date: 2/1/2023	SeqNo: 3408126	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72955	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72955	RunNo: 94345								
Prep Date: 2/1/2023	Analysis Date: 2/1/2023	SeqNo: 3408127	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302003

07-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-72937	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72937	RunNo: 94358								
Prep Date: 2/1/2023	Analysis Date: 2/2/2023	SeqNo: 3408807	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.8	61.9	130			
Surr: DNOP	5.1		5.000		102	69	147			

Sample ID: MB-72937	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72937	RunNo: 94358								
Prep Date: 2/1/2023	Analysis Date: 2/2/2023	SeqNo: 3408812	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		96.4	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302003

07-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: ics-72935	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 72935	RunNo: 94356								
Prep Date: 2/1/2023	Analysis Date: 2/2/2023	SeqNo: 3408765	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	114	72.3	137			
Surr: BFB	1200		1000		117	37.7	212			

Sample ID: mb-72935	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 72935	RunNo: 94356								
Prep Date: 2/1/2023	Analysis Date: 2/2/2023	SeqNo: 3408766	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302003

07-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-72935	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72935		RunNo: 94356							
Prep Date: 2/1/2023	Analysis Date: 2/2/2023		SeqNo: 3408773		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	86.6	80	120			
Toluene	0.89	0.050	1.000	0	88.9	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.7	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	70	130			

Sample ID: mb-72935	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72935		RunNo: 94356							
Prep Date: 2/1/2023	Analysis Date: 2/2/2023		SeqNo: 3408774		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	0.97		1.000		96.5	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2302003 RcptNo: 1

Received By: Cheyenne Cason 2/1/2023 8:00:00 AM
Completed By: Cheyenne Cason 2/1/2023 8:15:34 AM
Reviewed By: [Signature]

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH:
(<2 or >12 unless noted)
Adjusted?
Checked by: TME 2/1/23

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified:
By Whom:
Regarding:
Client Instructions:
Date:
Via: [] eMail [] Phone [] Fax [] In Person

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 0.0, Good, Not Present, Yogi

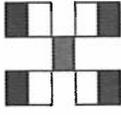
Chain-of-Custody Record

Client: EDG / Vertex
 Mailing Address: QA file
 Phone #: _____
 email or Fax#: _____

QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: Az Compliance
 NELAC Other
 EDD (Type) _____
 Project Name: Dayton ER Battery
 Project #: 22E-00123
 Project Manager: Chance Dixon
 Sampler: SM
 On Ice: Yes No Yog
 # of Coolers: 1
 Cooler Temp (including CF): 0.0-0-0.0 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
1/30/23	9:28	Soil	BES23-39	4oz jar	ice	2302003
	9:53		BES23-40			001
	9:57		BES23-41			002
	10:01		BES23-42			003
	10:14		BES23-43			004
	10:18		BES23-44			005
	12:43		BES23-45			006
	12:46		BES23-46			007
	12:54		BES23-47			008
	12:48		BES23-48			009
	13:03		BES23-49			010
	13:08		BES23-50			012

Date: 1/31/23 Time: 900 Relinquished by: [Signature]
 Date: 1/31/23 Time: 1900 Relinquished by: [Signature]
 Received by: [Signature] Date: 1/31/23 Time: 800
 Received by: [Signature] Date: 1/31/23 Time: 800
 Via: _____
 Remarks: Direct bill to: EOG
One count 24175 ASD
 C.C. smccarty@vertex.ca pg 1 of 2



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

Analysis Request

<input checked="" type="checkbox"/> RTE / MTBE / TMB's (8021)	
TPH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
CF, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	<input checked="" type="checkbox"/>
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	



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

February 10, 2023

Chance Dixon

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: Dayton ER Battery

OrderNo.: 2302138

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 7 sample(s) on 2/3/2023 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2302138**

Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-51 4'

Project: Dayton ER Battery

Collection Date: 2/1/2023 10:24:00 AM

Lab ID: 2302138-001

Matrix: SOIL

Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	470	49		mg/Kg	5	2/6/2023 6:48:03 PM
Motor Oil Range Organics (MRO)	450	250		mg/Kg	5	2/6/2023 6:48:03 PM
Surr: DNOP	128	69-147		%Rec	5	2/6/2023 6:48:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/7/2023 11:20:14 AM
Surr: BFB	99.6	37.7-212		%Rec	1	2/7/2023 11:20:14 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/7/2023 11:20:14 AM
Toluene	ND	0.050		mg/Kg	1	2/7/2023 11:20:14 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/7/2023 11:20:14 AM
Xylenes, Total	ND	0.10		mg/Kg	1	2/7/2023 11:20:14 AM
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	2/7/2023 11:20:14 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	2100	60		mg/Kg	20	2/4/2023 4:19:14 PM

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

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

Analytical Report

Lab Order **2302138**

Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-53 4'

Project: Dayton ER Battery

Collection Date: 2/1/2023 10:35:00 AM

Lab ID: 2302138-002

Matrix: SOIL

Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	68	9.3		mg/Kg	1	2/6/2023 7:26:59 PM
Motor Oil Range Organics (MRO)	87	47		mg/Kg	1	2/6/2023 7:26:59 PM
Surr: DNOP	112	69-147		%Rec	1	2/6/2023 7:26:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/7/2023 11:43:45 AM
Surr: BFB	101	37.7-212		%Rec	1	2/7/2023 11:43:45 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/7/2023 11:43:45 AM
Toluene	ND	0.048		mg/Kg	1	2/7/2023 11:43:45 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/7/2023 11:43:45 AM
Xylenes, Total	ND	0.095		mg/Kg	1	2/7/2023 11:43:45 AM
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	2/7/2023 11:43:45 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	980	60		mg/Kg	20	2/4/2023 4:56:29 PM

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

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

Analytical Report

Lab Order **2302138**

Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-54 4'

Project: Dayton ER Battery

Collection Date: 2/1/2023 10:40:00 AM

Lab ID: 2302138-003

Matrix: SOIL

Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	1100	48		mg/Kg	5	2/6/2023 8:05:34 PM
Motor Oil Range Organics (MRO)	580	240		mg/Kg	5	2/6/2023 8:05:34 PM
Surr: DNOP	110	69-147		%Rec	5	2/6/2023 8:05:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/7/2023 12:07:18 PM
Surr: BFB	111	37.7-212		%Rec	1	2/7/2023 12:07:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/7/2023 12:07:18 PM
Toluene	ND	0.049		mg/Kg	1	2/7/2023 12:07:18 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/7/2023 12:07:18 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/7/2023 12:07:18 PM
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	2/7/2023 12:07:18 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	1500	60		mg/Kg	20	2/4/2023 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.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Limit
	S % Recovery outside of standard limits. If undiluted results may be estimated.	

Analytical Report

Lab Order **2302138**

Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-55 4'

Project: Dayton ER Battery

Collection Date: 2/1/2023 10:45:00 AM

Lab ID: 2302138-004

Matrix: SOIL

Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	13	9.8		mg/Kg	1	2/6/2023 8:46:39 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/6/2023 8:46:39 PM
Surr: DNOP	113	69-147		%Rec	1	2/6/2023 8:46:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/7/2023 12:02:05 AM
Surr: BFB	101	37.7-212		%Rec	1	2/7/2023 12:02:05 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/7/2023 12:02:05 AM
Toluene	ND	0.049		mg/Kg	1	2/7/2023 12:02:05 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/7/2023 12:02:05 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/7/2023 12:02:05 AM
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	2/7/2023 12:02:05 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	850	60		mg/Kg	20	2/4/2023 5:46:07 PM

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

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

Analytical Report

Lab Order **2302138**

Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-56 4'

Project: Dayton ER Battery

Collection Date: 2/1/2023 12:06:00 PM

Lab ID: 2302138-005

Matrix: SOIL

Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	2/6/2023 9:28:53 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/6/2023 9:28:53 PM
Surr: DNOP	112	69-147		%Rec	1	2/6/2023 9:28:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/7/2023 1:12:25 AM
Surr: BFB	101	37.7-212		%Rec	1	2/7/2023 1:12:25 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/7/2023 1:12:25 AM
Toluene	ND	0.048		mg/Kg	1	2/7/2023 1:12:25 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/7/2023 1:12:25 AM
Xylenes, Total	ND	0.095		mg/Kg	1	2/7/2023 1:12:25 AM
Surr: 4-Bromofluorobenzene	90.0	70-130		%Rec	1	2/7/2023 1:12:25 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	920	60		mg/Kg	20	2/4/2023 5:58:32 PM

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

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

Analytical Report

Lab Order **2302138**

Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-57 4'

Project: Dayton ER Battery

Collection Date: 2/1/2023 12:11:00 PM

Lab ID: 2302138-006

Matrix: SOIL

Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/6/2023 9:42:46 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/6/2023 9:42:46 PM
Surr: DNOP	114	69-147		%Rec	1	2/6/2023 9:42:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/7/2023 2:22:41 AM
Surr: BFB	102	37.7-212		%Rec	1	2/7/2023 2:22:41 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/7/2023 2:22:41 AM
Toluene	ND	0.049		mg/Kg	1	2/7/2023 2:22:41 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/7/2023 2:22:41 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/7/2023 2:22:41 AM
Surr: 4-Bromofluorobenzene	89.6	70-130		%Rec	1	2/7/2023 2:22:41 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	330	60		mg/Kg	20	2/4/2023 6:35:46 PM

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

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

Analytical Report

Lab Order **2302138**

Date Reported: **2/10/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-58 4'

Project: Dayton ER Battery

Collection Date: 2/1/2023 12:15:00 PM

Lab ID: 2302138-007

Matrix: SOIL

Received Date: 2/3/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/6/2023 9:56:45 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/6/2023 9:56:45 PM
Surr: DNOP	113	69-147		%Rec	1	2/6/2023 9:56:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/7/2023 2:46:07 AM
Surr: BFB	103	37.7-212		%Rec	1	2/7/2023 2:46:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/7/2023 2:46:07 AM
Toluene	ND	0.049		mg/Kg	1	2/7/2023 2:46:07 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/7/2023 2:46:07 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/7/2023 2:46:07 AM
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	2/7/2023 2:46:07 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	690	60		mg/Kg	20	2/4/2023 6:48:10 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302138

10-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-73004	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 73004	RunNo: 94417								
Prep Date: 2/4/2023	Analysis Date: 2/4/2023	SeqNo: 3411174	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73004	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 73004	RunNo: 94417								
Prep Date: 2/4/2023	Analysis Date: 2/4/2023	SeqNo: 3411175	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.4	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302138

10-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-72997	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72997	RunNo: 94419								
Prep Date: 2/3/2023	Analysis Date: 2/6/2023	SeqNo: 3411232	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	79.4	61.9	130			
Surr: DNOP	4.3		5.000		86.2	69	147			

Sample ID: MB-72997	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72997	RunNo: 94419								
Prep Date: 2/3/2023	Analysis Date: 2/6/2023	SeqNo: 3411234	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	69	147			

Sample ID: 2302138-004AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BES23-55 4'	Batch ID: 72997	RunNo: 94420								
Prep Date: 2/3/2023	Analysis Date: 2/6/2023	SeqNo: 3412531	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	9.6	47.89	13.05	92.2	54.2	135			
Surr: DNOP	5.6		4.789		116	69	147			

Sample ID: 2302138-004AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BES23-55 4'	Batch ID: 72997	RunNo: 94420								
Prep Date: 2/3/2023	Analysis Date: 2/6/2023	SeqNo: 3412534	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	9.5	47.35	13.05	97.3	54.2	135	3.23	29.2	
Surr: DNOP	5.4		4.735		114	69	147	0	0	

Sample ID: MB-72991	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72991	RunNo: 94420								
Prep Date: 2/3/2023	Analysis Date: 2/6/2023	SeqNo: 3415319	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	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302138

10-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-72991	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72991	RunNo: 94420								
Prep Date: 2/3/2023	Analysis Date: 2/6/2023	SeqNo: 3415320			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	114	61.9	130			
Surr: DNOP	5.7		5.000		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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302138

10-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: ics-72992	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 72992		RunNo: 94414							
Prep Date: 2/3/2023	Analysis Date: 2/6/2023		SeqNo: 3411909		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	72.3	137			
Surr: BFB	1100		1000		113	37.7	212			

Sample ID: mb-72992	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 72992		RunNo: 94414							
Prep Date: 2/3/2023	Analysis Date: 2/6/2023		SeqNo: 3411910		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		103	37.7	212			

Sample ID: 2302138-004ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BES23-55 4'	Batch ID: 72992		RunNo: 94414							
Prep Date: 2/3/2023	Analysis Date: 2/7/2023		SeqNo: 3411982		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.44	0	99.9	70	130			
Surr: BFB	1100		977.5		115	37.7	212			

Sample ID: 2302138-004amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BES23-55 4'	Batch ID: 72992		RunNo: 94414							
Prep Date: 2/3/2023	Analysis Date: 2/7/2023		SeqNo: 3411983		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.44	0	97.1	70	130	2.84	20	
Surr: BFB	1100		977.5		116	37.7	212	0	0	

Sample ID: ics-72989	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 72989		RunNo: 94444							
Prep Date: 2/3/2023	Analysis Date: 2/7/2023		SeqNo: 3412419		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	110	72.3	137			
Surr: BFB	1200		1000		115	37.7	212			

Sample ID: mb-72989	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 72989		RunNo: 94444							
Prep Date: 2/3/2023	Analysis Date: 2/7/2023		SeqNo: 3412420		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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302138

10-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: mb-72989	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 72989	RunNo: 94444								
Prep Date: 2/3/2023	Analysis Date: 2/7/2023	SeqNo: 3412420	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		103	37.7	212			

Sample ID: ics-73024	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 73024	RunNo: 94444								
Prep Date: 2/6/2023	Analysis Date: 2/7/2023	SeqNo: 3413053	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		113	37.7	212			

Sample ID: mb-73024	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 73024	RunNo: 94444								
Prep Date: 2/6/2023	Analysis Date: 2/7/2023	SeqNo: 3413054	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		104	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302138

10-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-72992	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 72992	RunNo: 94414								
Prep Date: 2/3/2023	Analysis Date: 2/6/2023	SeqNo: 3412014	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.8	80	120			
Toluene	0.86	0.050	1.000	0	85.9	80	120			
Ethylbenzene	0.85	0.050	1.000	0	84.7	80	120			
Xylenes, Total	2.6	0.10	3.000	0	85.3	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.5	70	130			

Sample ID: mb-72992	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 72992	RunNo: 94414								
Prep Date: 2/3/2023	Analysis Date: 2/6/2023	SeqNo: 3412015	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	0.90		1.000		90.1	70	130			

Sample ID: 2302138-005ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BES23-56 4'	Batch ID: 72992	RunNo: 94414								
Prep Date: 2/3/2023	Analysis Date: 2/7/2023	SeqNo: 3412018	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.024	0.9479	0	85.3	68.8	120			
Toluene	0.83	0.047	0.9479	0.01930	85.6	73.6	124			
Ethylbenzene	0.83	0.047	0.9479	0	87.8	72.7	129			
Xylenes, Total	2.5	0.095	2.844	0.02738	87.2	75.7	126			
Surr: 4-Bromofluorobenzene	0.85		0.9479		89.2	70	130			

Sample ID: 2302138-005amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BES23-56 4'	Batch ID: 72992	RunNo: 94414								
Prep Date: 2/3/2023	Analysis Date: 2/7/2023	SeqNo: 3412019	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.024	0.9425	0	88.3	68.8	120	2.89	20	
Toluene	0.86	0.047	0.9425	0.01930	88.9	73.6	124	3.15	20	
Ethylbenzene	0.85	0.047	0.9425	0	90.6	72.7	129	2.67	20	
Xylenes, Total	2.6	0.094	2.828	0.02738	89.5	75.7	126	2.12	20	
Surr: 4-Bromofluorobenzene	0.87		0.9425		92.1	70	130	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302138

10-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-72989	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 72989	RunNo: 94444								
Prep Date: 2/3/2023	Analysis Date: 2/7/2023	SeqNo: 3412425	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	80	120			
Toluene	0.91	0.050	1.000	0	90.5	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.0	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		92.9	70	130			

Sample ID: mb-72989	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 72989	RunNo: 94444								
Prep Date: 2/3/2023	Analysis Date: 2/7/2023	SeqNo: 3412426	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	0.91		1.000		91.3	70	130			

Sample ID: LCS-73024	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 73024	RunNo: 94444								
Prep Date: 2/6/2023	Analysis Date: 2/7/2023	SeqNo: 3413179	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	70	130			

Sample ID: mb-73024	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 73024	RunNo: 94444								
Prep Date: 2/6/2023	Analysis Date: 2/7/2023	SeqNo: 3413180	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		91.6	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2302138 RcptNo: 1

Received By: Tracy Casarrubias 2/3/2023 7:25:00 AM

Completed By: Tracy Casarrubias 2/3/2023 7:56:41 AM

Reviewed By: [Signature] 2-3-23

Chain of Custody

1. Is Chain of Custody complete? Yes [] No [x] Not Present []

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes [x] No [] NA []

4. Were all samples received at a temperature of >0° C to 6.0°C Yes [x] No [] NA []

5. Sample(s) in proper container(s)? Yes [x] No []

6. Sufficient sample volume for indicated test(s)? Yes [x] No []

7. Are samples (except VOA and ONG) properly preserved? Yes [x] No []

8. Was preservative added to bottles? Yes [] No [x] NA []

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [x]

10. Were any sample containers received broken? Yes [] No [x]

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes [x] No []

12. Are matrices correctly identified on Chain of Custody? Yes [x] No []

13. Is it clear what analyses were requested? Yes [x] No []

14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes [x] No []

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: [Signature] 2/3/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes [] No [] NA [x]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 0.9, Good, Yes, Morty, ,

Chain-of-Custody Record

Client: EOG / VerTex

Mailing Address: On file

Phone #: _____
email or Fax#: _____

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

Accreditation: Az Compliance NELAC Other

EDD (Type) _____

Turn-Around Time:
 Standard Rush 48 hr
 Project Name: _____

Project #: Dayton ER Battery

Project Manager: Chance Dixon

Sampler: SM
 On Ice: Yes No many
 # of Coolers: 1
 Cooler Temp (including CF): 1.1-0.2-0.9 (°C)

Container Type and #
4oz jar
 Preservative Type
ice
 HEAL No.
2302138

Date	Time	Matrix	Sample Name
<u>2/1/23</u>	<u>10:24</u>	<u>Soil</u>	<u>BES23-51 4'</u>
	<u>10:30</u>		<u>BES23-52 4'</u>
	<u>10:35</u>		<u>BES23-53 4'</u>
	<u>10:40</u>		<u>BES23-54 4'</u>
	<u>10:45</u>		<u>BES23-55 4'</u>
	<u>12:06</u>		<u>BES23-56 4'</u>
	<u>12:11</u>		<u>BES23-57 4'</u>
	<u>12:15</u>		<u>BES23-58 4'</u>

Date: 2/1/23 Time: 1814 Relinquished by: Steph McCay

Date: 2/2/23 Time: 1900 Relinquished by: ammm

Received by: ammm Via: _____ Date: 2/2/23 Time: 900

Received by: ammm Via: car Date: 2/2/23 Time: 7:25



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request	
<input checked="" type="checkbox"/> BTEX / MTBE / TMBs (8021)	
<input checked="" type="checkbox"/> TPH:8015D(GRO / DRO / MRO)	
8081 Pesticides/8082 PCB's	
EDB (Method 504.1)	
PAHs by 8310 or 8270SIMS	
RCRA 8 Metals	
<input checked="" type="checkbox"/> F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	
8260 (VOA)	
8270 (Semi-VOA)	
Total Coliform (Present/Absent)	

Remarks: Direct bill to: EOG

cc. SMccarty@vertex-ca

Analytical Report

Lab Order **2302196**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES23-184 0-4'

Project: Dayton ER Battery

Collection Date: 2/2/2023 1:32:00 PM

Lab ID: 2302196-001

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/8/2023 9:07:06 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/8/2023 9:07:06 AM
Surr: DNOP	81.1	69-147		%Rec	1	2/8/2023 9:07:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/8/2023 11:31:34 AM
Surr: BFB	99.9	37.7-212		%Rec	1	2/8/2023 11:31:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/8/2023 11:31:34 AM
Toluene	ND	0.048		mg/Kg	1	2/8/2023 11:31:34 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/8/2023 11:31:34 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/8/2023 11:31:34 AM
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	2/8/2023 11:31:34 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1700	60		mg/Kg	20	2/7/2023 11:48:28 AM

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

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

Analytical Report

Lab Order **2302196**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-52 4-5'

Project: Dayton ER Battery

Collection Date: 2/2/2023 12:12:00 PM

Lab ID: 2302196-002

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/8/2023 9:21:28 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/8/2023 9:21:28 AM
Surr: DNOP	95.5	69-147		%Rec	1	2/8/2023 9:21:28 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/8/2023 1:49:24 AM
Surr: BFB	109	37.7-212		%Rec	1	2/8/2023 1:49:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	2/8/2023 1:49:24 AM
Toluene	ND	0.047		mg/Kg	1	2/8/2023 1:49:24 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/8/2023 1:49:24 AM
Xylenes, Total	ND	0.093		mg/Kg	1	2/8/2023 1:49:24 AM
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	2/8/2023 1:49:24 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1200	60		mg/Kg	20	2/7/2023 12:00:53 PM

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

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



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

February 13, 2023

Chance Dixon

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

RE: Dayton ER Battery

OrderNo.: 2302261

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/7/2023 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2302261**

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES23-202 0-4'

Project: Dayton ER Battery

Collection Date: 2/3/2023 11:58:00 AM

Lab ID: 2302261-001

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/9/2023 10:45:50 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/9/2023 10:45:50 PM
Surr: DNOP	126	69-147		%Rec	1	2/9/2023 10:45:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/8/2023 10:08:48 PM
Surr: BFB	102	37.7-212		%Rec	1	2/8/2023 10:08:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/8/2023 10:08:48 PM
Toluene	ND	0.050		mg/Kg	1	2/8/2023 10:08:48 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/8/2023 10:08:48 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/8/2023 10:08:48 PM
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	2/8/2023 10:08:48 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	310	60		mg/Kg	20	2/8/2023 2:12:08 PM

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

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

Analytical Report

Lab Order 2302261

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES23-203 0-4'

Project: Dayton ER Battery

Collection Date: 2/3/2023 12:01:00 PM

Lab ID: 2302261-002

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/9/2023 11:56:19 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/9/2023 11:56:19 PM
Surr: DNOP	143	69-147		%Rec	1	2/9/2023 11:56:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/8/2023 10:32:17 PM
Surr: BFB	101	37.7-212		%Rec	1	2/8/2023 10:32:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/8/2023 10:32:17 PM
Toluene	ND	0.050		mg/Kg	1	2/8/2023 10:32:17 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/8/2023 10:32:17 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/8/2023 10:32:17 PM
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	2/8/2023 10:32:17 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	340	60		mg/Kg	20	2/8/2023 2:49:21 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302261

13-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-73076	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 73076	RunNo: 94475								
Prep Date: 2/8/2023	Analysis Date: 2/8/2023	SeqNo: 3414519	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73076	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 73076	RunNo: 94475								
Prep Date: 2/8/2023	Analysis Date: 2/8/2023	SeqNo: 3414520	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			

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302261

13-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-73062	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73062	RunNo: 94502								
Prep Date: 2/7/2023	Analysis Date: 2/9/2023	SeqNo: 3415581	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	10	50.00	0	116	61.9	130			
Surr: DNOP	5.7		5.000		114	69	147			

Sample ID: MB-73062	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73062	RunNo: 94502								
Prep Date: 2/7/2023	Analysis Date: 2/9/2023	SeqNo: 3416376	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	13		10.00		130	69	147			

Sample ID: 2302261-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WES23-202 0-4'	Batch ID: 73062	RunNo: 94502								
Prep Date: 2/7/2023	Analysis Date: 2/9/2023	SeqNo: 3416469	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	9.4	46.77	0	126	54.2	135			
Surr: DNOP	6.6		4.677		142	69	147			

Sample ID: 2302261-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WES23-202 0-4'	Batch ID: 73062	RunNo: 94502								
Prep Date: 2/7/2023	Analysis Date: 2/9/2023	SeqNo: 3416470	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	8.9	44.60	0	104	54.2	135	24.0	29.2	
Surr: DNOP	5.1		4.460		115	69	147	0	0	

Sample ID: MB-73034	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73034	RunNo: 94521								
Prep Date: 2/6/2023	Analysis Date: 2/10/2023	SeqNo: 3417017	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.9		10.00		88.9	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302261

13-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: ics-73053	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 73053	RunNo: 94468								
Prep Date: 2/7/2023	Analysis Date: 2/8/2023	SeqNo: 3413852	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.5	72.3	137			
Surr: BFB	1100		1000		112	37.7	212			

Sample ID: mb-73053	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 73053	RunNo: 94468								
Prep Date: 2/7/2023	Analysis Date: 2/8/2023	SeqNo: 3413853	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		99.5	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302261

13-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-73053	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 73053		RunNo: 94468							
Prep Date: 2/7/2023	Analysis Date: 2/8/2023		SeqNo: 3413860		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.9	80	120			
Toluene	0.86	0.050	1.000	0	86.1	80	120			
Ethylbenzene	0.88	0.050	1.000	0	87.5	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.4	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.5	70	130			

Sample ID: mb-73053	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 73053		RunNo: 94468							
Prep Date: 2/7/2023	Analysis Date: 2/8/2023		SeqNo: 3413861		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	0.84		1.000		84.1	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2302261 RcptNo: 1

Received By: Juan Rojas 2/7/2023 7:50:00 AM *[Signature]*
Completed By: Sean Livingston 2/7/2023 8:10:02 AM *[Signature]*
Reviewed By: *[Signature]* 2-7-23

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: *SL 2/7/23*

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
By Whom: _____ Via: eMail Phone Fax In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.2	Good	Not Present	Morty		

Chain-of-Custody Record

Client: EOG / Vertex

Mailing Address: on file

Phone #: _____
email or Fax#: _____

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

Accreditation: Az Compliance
 NELAC Other _____

EDD (Type) _____

Turn-Around Time:
 Standard Rush 48 hr

Project Name:
Dayton ER Battery

Project#: _____
22E-00123

Project Manager:
Chance Dixon

Sampler: SM
On Ice: Yes No

of Coolers: 1
Cooler Temp (including CF): Warty 4-0.2-5.2 (°C)

Container Type and #
4oz jar 1

Preservative Type
ice

HEAL No.
2302261



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

Analysis Request

<input checked="" type="checkbox"/> TPH:8015D(GRO / DRO / MRO)	<input checked="" type="checkbox"/> BTEX / MTBE / TMB's (8021)
<input type="checkbox"/> 8081 Pesticides/8082 PCB's	<input type="checkbox"/> EDB (Method 504.1)
<input type="checkbox"/> PAHs by 8310 or 8270SIMS	<input type="checkbox"/> RCRA 8 Metals
<input type="checkbox"/> CDF, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	<input checked="" type="checkbox"/> 8260 (VOA)
<input type="checkbox"/> 8270 (Semi-VOA)	<input type="checkbox"/> Total Coliform (Present/Absent)

Remarks: Direct bill to: EOG

Received by: [Signature] Date: 2/6/23 85
Received by: [Signature] Date: 2/7/23 7:50

If necessary, samples submitted to Hall Environmental may be re-contracted to 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: 5/1/2023 9:59:25 AM



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

February 13, 2023

Chance Dixon

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Dayton ER Battery

OrderNo.: 2302196

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 2 sample(s) on 2/4/2023 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2302196**

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES23-184 0-4'

Project: Dayton ER Battery

Collection Date: 2/2/2023 1:32:00 PM

Lab ID: 2302196-001

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/8/2023 9:07:06 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/8/2023 9:07:06 AM
Surr: DNOP	81.1	69-147		%Rec	1	2/8/2023 9:07:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/8/2023 11:31:34 AM
Surr: BFB	99.9	37.7-212		%Rec	1	2/8/2023 11:31:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/8/2023 11:31:34 AM
Toluene	ND	0.048		mg/Kg	1	2/8/2023 11:31:34 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/8/2023 11:31:34 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/8/2023 11:31:34 AM
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	2/8/2023 11:31:34 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1700	60		mg/Kg	20	2/7/2023 11:48:28 AM

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

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

Analytical Report

Lab Order **2302196**

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-52 4-5'

Project: Dayton ER Battery

Collection Date: 2/2/2023 12:12:00 PM

Lab ID: 2302196-002

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/8/2023 9:21:28 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/8/2023 9:21:28 AM
Surr: DNOP	95.5	69-147		%Rec	1	2/8/2023 9:21:28 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/8/2023 1:49:24 AM
Surr: BFB	109	37.7-212		%Rec	1	2/8/2023 1:49:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	2/8/2023 1:49:24 AM
Toluene	ND	0.047		mg/Kg	1	2/8/2023 1:49:24 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/8/2023 1:49:24 AM
Xylenes, Total	ND	0.093		mg/Kg	1	2/8/2023 1:49:24 AM
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	2/8/2023 1:49:24 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1200	60		mg/Kg	20	2/7/2023 12:00:53 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302196

13-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-73043	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 73043	RunNo: 94445								
Prep Date: 2/7/2023	Analysis Date: 2/7/2023	SeqNo: 3413497	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73043	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 73043	RunNo: 94445								
Prep Date: 2/7/2023	Analysis Date: 2/7/2023	SeqNo: 3413498	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302196

13-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: MB-73034	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 73034		RunNo: 94435							
Prep Date: 2/6/2023	Analysis Date: 2/7/2023		SeqNo: 3412826		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		102	69	147			

Sample ID: LCS-73034	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 73034		RunNo: 94435							
Prep Date: 2/6/2023	Analysis Date: 2/7/2023		SeqNo: 3412827		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		97.3	69	147			

Sample ID: MB-73030	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 73030		RunNo: 94448							
Prep Date: 2/6/2023	Analysis Date: 2/7/2023		SeqNo: 3413657		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		101	69	147			

Sample ID: LCS-73030	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 73030		RunNo: 94448							
Prep Date: 2/6/2023	Analysis Date: 2/7/2023		SeqNo: 3413658		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	10	50.00	0	116	61.9	130			
Surr: DNOP	4.9		5.000		97.8	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302196

13-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: ics-72989	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 72989		RunNo: 94444							
Prep Date: 2/3/2023	Analysis Date: 2/7/2023		SeqNo: 3412419				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1200		1000		115	37.7	212			

Sample ID: mb-72989	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 72989		RunNo: 94444							
Prep Date: 2/3/2023	Analysis Date: 2/7/2023		SeqNo: 3412420				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		103	37.7	212			

Sample ID: ics-73024	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 73024		RunNo: 94444							
Prep Date: 2/6/2023	Analysis Date: 2/7/2023		SeqNo: 3413053				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	72.3	137			
Surr: BFB	1100		1000		113	37.7	212			

Sample ID: mb-73024	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 73024		RunNo: 94444							
Prep Date: 2/6/2023	Analysis Date: 2/7/2023		SeqNo: 3413054				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		104	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302196

13-Feb-23

Client: Vertex Resources Services, Inc.

Project: Dayton ER Battery

Sample ID: LCS-72989	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72989		RunNo: 94444							
Prep Date: 2/3/2023	Analysis Date: 2/7/2023		SeqNo: 3412425		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.93		1.000		92.9	70	130			

Sample ID: mb-72989	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72989		RunNo: 94444							
Prep Date: 2/3/2023	Analysis Date: 2/7/2023		SeqNo: 3412426		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.91		1.000		91.3	70	130			

Sample ID: LCS-73024	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 73024		RunNo: 94444							
Prep Date: 2/6/2023	Analysis Date: 2/7/2023		SeqNo: 3413179		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.5	80	120			
Toluene	0.93	0.050	1.000	0	93.0	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.4	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	70	130			

Sample ID: mb-73024	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 73024		RunNo: 94444							
Prep Date: 2/6/2023	Analysis Date: 2/7/2023		SeqNo: 3413180		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	0.92		1.000		91.6	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical 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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2302196 RcptNo: 1

Received By: Cheyenne Cason 2/4/2023 9:00:00 AM
Completed By: Cheyenne Cason 2/4/2023 9:07:32 AM
Reviewed By: [Signature] 02/04/2023

Chain of Custody

- 1. Is Chain of Custody complete? Yes [] No [x] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: [Signature] 2/4/23

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [x]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:
Client Information incomplete on COC - CMC 2/4/23

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Contains 2 rows of data.



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

February 20, 2023

Chance Dixon
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX

RE: Dayton ER Battery

OrderNo.: 2302778

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/17/2023 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2302778**

Date Reported: **2/20/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES23-204 0-4'

Project: Dayton ER Battery

Collection Date: 2/15/2023 11:30:00 AM

Lab ID: 2302778-001

Matrix: MEOH (SOIL)

Received Date: 2/17/2023 8:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	ND	59		mg/Kg	20	2/17/2023 2:23:19 PM	73239
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/17/2023 10:58:43 AM	73232
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/17/2023 10:58:43 AM	73232
Surr: DNOP	91.7	69-147		%Rec	1	2/17/2023 10:58:43 AM	73232
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	2/17/2023 12:06:00 PM	GS94683
Surr: BFB	111	37.7-212		%Rec	1	2/17/2023 12:06:00 PM	GS94683
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.021		mg/Kg	1	2/17/2023 12:06:00 PM	BS94683
Toluene	ND	0.041		mg/Kg	1	2/17/2023 12:06:00 PM	BS94683
Ethylbenzene	ND	0.041		mg/Kg	1	2/17/2023 12:06:00 PM	BS94683
Xylenes, Total	ND	0.082		mg/Kg	1	2/17/2023 12:06:00 PM	BS94683
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	2/17/2023 12:06:00 PM	BS94683

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302778

20-Feb-23

Client: EOG
Project: Dayton ER Battery

Sample ID: MB-73239	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 73239	RunNo: 94696								
Prep Date: 2/17/2023	Analysis Date: 2/17/2023	SeqNo: 3423573	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73239	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 73239	RunNo: 94696								
Prep Date: 2/17/2023	Analysis Date: 2/17/2023	SeqNo: 3423574	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.6	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302778

20-Feb-23

Client: EOG
Project: Dayton ER Battery

Sample ID: LCS-73232	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73232	RunNo: 94691								
Prep Date: 2/17/2023	Analysis Date: 2/17/2023	SeqNo: 3423170	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	87.0	61.9	130			
Surr: DNOP	4.5		5.000		90.8	69	147			

Sample ID: MB-73232	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73232	RunNo: 94691								
Prep Date: 2/17/2023	Analysis Date: 2/17/2023	SeqNo: 3423171	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	8.5		10.00		85.3	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302778

20-Feb-23

Client: EOG
Project: Dayton ER Battery

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: GS94683	RunNo: 94683								
Prep Date:	Analysis Date: 2/17/2023	SeqNo: 3422956	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	72.3	137			
Surr: BFB	1300		1000		131	37.7	212			

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: GS94683	RunNo: 94683								
Prep Date:	Analysis Date: 2/17/2023	SeqNo: 3422957	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		109	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302778

20-Feb-23

Client: EOG
Project: Dayton ER Battery

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: BS94683	RunNo: 94683								
Prep Date:	Analysis Date: 2/17/2023	SeqNo: 3422965	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: BS94683	RunNo: 94683								
Prep Date:	Analysis Date: 2/17/2023	SeqNo: 3423273	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.2	80	120			
Toluene	0.97	0.050	1.000	0	97.2	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.5	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: EOG Work Order Number: 2302778 RcptNo: 1

Received By: Tracy Casarrubias 2/17/2023 8:25:00 AM
Completed By: Tracy Casarrubias 2/17/2023 8:46:28 AM
Reviewed By: [Signature] 2-17-23

Chain of Custody

- 1. Is Chain of Custody complete? Yes [] No [x] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: [Signature] 2/17/23

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [x]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 1.2, Good, Yes, Morty, [], []



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

March 03, 2023

Chance Dixon

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Dayton ER Battery

OrderNo.: 2302A11

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 11 sample(s) on 2/23/2023 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2302A11

Date Reported: 3/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-59 4ft

Project: Dayton ER Battery

Collection Date: 2/21/2023 9:00:00 AM

Lab ID: 2302A11-001

Matrix: SOIL

Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3800	150		mg/Kg	50	2/24/2023 2:14:21 PM	73368
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JR
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	2/23/2023 5:17:15 PM	G94839
Surr: BFB	107	70-130		%Rec	1	2/23/2023 5:17:15 PM	G94839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	12	9.8		mg/Kg	1	2/24/2023 11:59:33 AM	73339
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/24/2023 11:59:33 AM	73339
Surr: DNOP	99.7	69-147		%Rec	1	2/24/2023 11:59:33 AM	73339
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JR
Benzene	ND	0.022		mg/Kg	1	2/23/2023 5:17:15 PM	R94839
Toluene	ND	0.043		mg/Kg	1	2/23/2023 5:17:15 PM	R94839
Ethylbenzene	ND	0.043		mg/Kg	1	2/23/2023 5:17:15 PM	R94839
Xylenes, Total	ND	0.086		mg/Kg	1	2/23/2023 5:17:15 PM	R94839
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	2/23/2023 5:17:15 PM	R94839
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	2/23/2023 5:17:15 PM	R94839
Surr: Dibromofluoromethane	101	70-130		%Rec	1	2/23/2023 5:17:15 PM	R94839
Surr: Toluene-d8	92.4	70-130		%Rec	1	2/23/2023 5:17:15 PM	R94839

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

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

Analytical Report

Lab Order 2302A11

Date Reported: 3/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-60 4ft

Project: Dayton ER Battery

Collection Date: 2/21/2023 9:05:00 AM

Lab ID: 2302A11-002

Matrix: SOIL

Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1000	60		mg/Kg	20	2/24/2023 11:52:48 AM	73368
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JR
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	2/23/2023 6:39:34 PM	G94839
Surr: BFB	108	70-130		%Rec	1	2/23/2023 6:39:34 PM	G94839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	23	10		mg/Kg	1	2/24/2023 12:08:09 PM	73339
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/24/2023 12:08:09 PM	73339
Surr: DNOP	103	69-147		%Rec	1	2/24/2023 12:08:09 PM	73339
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JR
Benzene	ND	0.020		mg/Kg	1	2/23/2023 6:39:34 PM	R94839
Toluene	ND	0.041		mg/Kg	1	2/23/2023 6:39:34 PM	R94839
Ethylbenzene	ND	0.041		mg/Kg	1	2/23/2023 6:39:34 PM	R94839
Xylenes, Total	ND	0.082		mg/Kg	1	2/23/2023 6:39:34 PM	R94839
Surr: 1,2-Dichloroethane-d4	99.6	70-130		%Rec	1	2/23/2023 6:39:34 PM	R94839
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	2/23/2023 6:39:34 PM	R94839
Surr: Dibromofluoromethane	108	70-130		%Rec	1	2/23/2023 6:39:34 PM	R94839
Surr: Toluene-d8	95.0	70-130		%Rec	1	2/23/2023 6:39:34 PM	R94839

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

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

Analytical Report

Lab Order 2302A11

Date Reported: 3/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-61 4ft

Project: Dayton ER Battery

Collection Date: 2/21/2023 9:10:00 AM

Lab ID: 2302A11-003

Matrix: SOIL

Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1900	60		mg/Kg	20	2/24/2023 12:05:40 PM	73368
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JR
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	2/23/2023 8:01:39 PM	G94839
Surr: BFB	108	70-130		%Rec	1	2/23/2023 8:01:39 PM	G94839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/24/2023 12:10:01 PM	73339
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/24/2023 12:10:01 PM	73339
Surr: DNOP	91.9	69-147		%Rec	1	2/24/2023 12:10:01 PM	73339
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JR
Benzene	ND	0.020		mg/Kg	1	2/23/2023 8:01:39 PM	R94839
Toluene	ND	0.041		mg/Kg	1	2/23/2023 8:01:39 PM	R94839
Ethylbenzene	ND	0.041		mg/Kg	1	2/23/2023 8:01:39 PM	R94839
Xylenes, Total	ND	0.082		mg/Kg	1	2/23/2023 8:01:39 PM	R94839
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	2/23/2023 8:01:39 PM	R94839
Surr: 4-Bromofluorobenzene	92.3	70-130		%Rec	1	2/23/2023 8:01:39 PM	R94839
Surr: Dibromofluoromethane	109	70-130		%Rec	1	2/23/2023 8:01:39 PM	R94839
Surr: Toluene-d8	93.2	70-130		%Rec	1	2/23/2023 8:01:39 PM	R94839

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

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

Analytical Report

Lab Order 2302A11

Date Reported: 3/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-62 4ft

Project: Dayton ER Battery

Collection Date: 2/21/2023 9:15:00 AM

Lab ID: 2302A11-004

Matrix: SOIL

Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1900	60		mg/Kg	20	2/24/2023 12:18:32 PM	73368
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JR
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	2/23/2023 8:28:58 PM	G94839
Surr: BFB	113	70-130		%Rec	1	2/23/2023 8:28:58 PM	G94839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	85	8.7		mg/Kg	1	2/23/2023 5:46:45 PM	73339
Motor Oil Range Organics (MRO)	120	43		mg/Kg	1	2/23/2023 5:46:45 PM	73339
Surr: DNOP	105	69-147		%Rec	1	2/23/2023 5:46:45 PM	73339
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JR
Benzene	ND	0.017		mg/Kg	1	2/23/2023 8:28:58 PM	R94839
Toluene	ND	0.034		mg/Kg	1	2/23/2023 8:28:58 PM	R94839
Ethylbenzene	ND	0.034		mg/Kg	1	2/23/2023 8:28:58 PM	R94839
Xylenes, Total	ND	0.069		mg/Kg	1	2/23/2023 8:28:58 PM	R94839
Surr: 1,2-Dichloroethane-d4	99.0	70-130		%Rec	1	2/23/2023 8:28:58 PM	R94839
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	2/23/2023 8:28:58 PM	R94839
Surr: Dibromofluoromethane	107	70-130		%Rec	1	2/23/2023 8:28:58 PM	R94839
Surr: Toluene-d8	95.0	70-130		%Rec	1	2/23/2023 8:28:58 PM	R94839

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

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

Analytical Report

Lab Order 2302A11

Date Reported: 3/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-63 4ft

Project: Dayton ER Battery

Collection Date: 2/21/2023 9:25:00 AM

Lab ID: 2302A11-006

Matrix: SOIL

Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3600	150		mg/Kg	50	2/24/2023 2:27:12 PM	73368
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JR
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	2/23/2023 8:56:17 PM	G94839
Surr: BFB	109	70-130		%Rec	1	2/23/2023 8:56:17 PM	G94839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	34	9.7		mg/Kg	1	2/24/2023 12:20:32 PM	73339
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/24/2023 12:20:32 PM	73339
Surr: DNOP	113	69-147		%Rec	1	2/24/2023 12:20:32 PM	73339
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JR
Benzene	ND	0.015		mg/Kg	1	2/23/2023 8:56:17 PM	R94839
Toluene	ND	0.031		mg/Kg	1	2/23/2023 8:56:17 PM	R94839
Ethylbenzene	ND	0.031		mg/Kg	1	2/23/2023 8:56:17 PM	R94839
Xylenes, Total	ND	0.061		mg/Kg	1	2/23/2023 8:56:17 PM	R94839
Surr: 1,2-Dichloroethane-d4	91.5	70-130		%Rec	1	2/23/2023 8:56:17 PM	R94839
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	2/23/2023 8:56:17 PM	R94839
Surr: Dibromofluoromethane	101	70-130		%Rec	1	2/23/2023 8:56:17 PM	R94839
Surr: Toluene-d8	95.1	70-130		%Rec	1	2/23/2023 8:56:17 PM	R94839

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

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

Analytical Report

Lab Order 2302A11

Date Reported: 3/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-64 4ft

Project: Dayton ER Battery

Collection Date: 2/21/2023 9:30:00 AM

Lab ID: 2302A11-007

Matrix: SOIL

Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	3000	150		mg/Kg	50	2/24/2023 2:40:05 PM	73368
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JR
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	2/23/2023 9:23:38 PM	G94839
Surr: BFB	108	70-130		%Rec	1	2/23/2023 9:23:38 PM	G94839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	27	9.9		mg/Kg	1	2/24/2023 12:31:04 PM	73339
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/24/2023 12:31:04 PM	73339
Surr: DNOP	94.2	69-147		%Rec	1	2/24/2023 12:31:04 PM	73339
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JR
Benzene	ND	0.018		mg/Kg	1	2/23/2023 9:23:38 PM	R94839
Toluene	ND	0.036		mg/Kg	1	2/23/2023 9:23:38 PM	R94839
Ethylbenzene	ND	0.036		mg/Kg	1	2/23/2023 9:23:38 PM	R94839
Xylenes, Total	ND	0.071		mg/Kg	1	2/23/2023 9:23:38 PM	R94839
Surr: 1,2-Dichloroethane-d4	92.2	70-130		%Rec	1	2/23/2023 9:23:38 PM	R94839
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	2/23/2023 9:23:38 PM	R94839
Surr: Dibromofluoromethane	100	70-130		%Rec	1	2/23/2023 9:23:38 PM	R94839
Surr: Toluene-d8	92.2	70-130		%Rec	1	2/23/2023 9:23:38 PM	R94839

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

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

Analytical Report

Lab Order 2302A11

Date Reported: 3/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-65 4ft

Project: Dayton ER Battery

Collection Date: 2/21/2023 9:35:00 AM

Lab ID: 2302A11-008

Matrix: SOIL

Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2300	150		mg/Kg	50	2/24/2023 2:52:56 PM	73368
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JR
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	2/23/2023 9:50:52 PM	G94839
Surr: BFB	108	70-130		%Rec	1	2/23/2023 9:50:52 PM	G94839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/2/2023 4:23:15 PM	73339
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/2/2023 4:23:15 PM	73339
Surr: DNOP	91.1	69-147		%Rec	1	3/2/2023 4:23:15 PM	73339
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JR
Benzene	ND	0.018		mg/Kg	1	2/23/2023 9:50:52 PM	R94839
Toluene	ND	0.036		mg/Kg	1	2/23/2023 9:50:52 PM	R94839
Ethylbenzene	ND	0.036		mg/Kg	1	2/23/2023 9:50:52 PM	R94839
Xylenes, Total	ND	0.072		mg/Kg	1	2/23/2023 9:50:52 PM	R94839
Surr: 1,2-Dichloroethane-d4	92.9	70-130		%Rec	1	2/23/2023 9:50:52 PM	R94839
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	2/23/2023 9:50:52 PM	R94839
Surr: Dibromofluoromethane	100	70-130		%Rec	1	2/23/2023 9:50:52 PM	R94839
Surr: Toluene-d8	93.6	70-130		%Rec	1	2/23/2023 9:50:52 PM	R94839

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

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

Analytical Report

Lab Order 2302A11

Date Reported: 3/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-66 4ft

Project: Dayton ER Battery

Collection Date: 2/21/2023 9:40:00 AM

Lab ID: 2302A11-009

Matrix: SOIL

Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	880	60		mg/Kg	20	2/24/2023 1:10:00 PM	73368
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JR
Gasoline Range Organics (GRO)	ND	24		mg/Kg	1	2/23/2023 10:18:06 PM	G94839
Surr: BFB	112	70-130		%Rec	1	2/23/2023 10:18:06 PM	G94839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/24/2023 1:02:37 PM	73339
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/24/2023 1:02:37 PM	73339
Surr: DNOP	106	69-147		%Rec	1	2/24/2023 1:02:37 PM	73339
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JR
Benzene	ND	0.12		mg/Kg	1	2/23/2023 10:18:06 PM	R94839
Toluene	ND	0.24		mg/Kg	1	2/23/2023 10:18:06 PM	R94839
Ethylbenzene	ND	0.24		mg/Kg	1	2/23/2023 10:18:06 PM	R94839
Xylenes, Total	ND	0.48		mg/Kg	1	2/23/2023 10:18:06 PM	R94839
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%Rec	1	2/23/2023 10:18:06 PM	R94839
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	2/23/2023 10:18:06 PM	R94839
Surr: Dibromofluoromethane	107	70-130		%Rec	1	2/23/2023 10:18:06 PM	R94839
Surr: Toluene-d8	94.1	70-130		%Rec	1	2/23/2023 10:18:06 PM	R94839

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

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

Analytical Report

Lab Order 2302A11

Date Reported: 3/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-67 4ft

Project: Dayton ER Battery

Collection Date: 2/21/2023 9:45:00 AM

Lab ID: 2302A11-010

Matrix: SOIL

Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1600	60		mg/Kg	20	2/24/2023 1:22:51 PM	73368
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JR
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	2/24/2023 1:01:08 AM	G94839
Surr: BFB	112	70-130		%Rec	1	2/24/2023 1:01:08 AM	G94839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/24/2023 1:13:11 PM	73339
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/24/2023 1:13:11 PM	73339
Surr: DNOP	86.6	69-147		%Rec	1	2/24/2023 1:13:11 PM	73339
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JR
Benzene	ND	0.019		mg/Kg	1	2/24/2023 1:01:08 AM	R94839
Toluene	ND	0.038		mg/Kg	1	2/24/2023 1:01:08 AM	R94839
Ethylbenzene	ND	0.038		mg/Kg	1	2/24/2023 1:01:08 AM	R94839
Xylenes, Total	ND	0.075		mg/Kg	1	2/24/2023 1:01:08 AM	R94839
Surr: 1,2-Dichloroethane-d4	94.4	70-130		%Rec	1	2/24/2023 1:01:08 AM	R94839
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	2/24/2023 1:01:08 AM	R94839
Surr: Dibromofluoromethane	103	70-130		%Rec	1	2/24/2023 1:01:08 AM	R94839
Surr: Toluene-d8	95.1	70-130		%Rec	1	2/24/2023 1:01:08 AM	R94839

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

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

Analytical Report

Lab Order 2302A11

Date Reported: 3/3/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-68 4ft

Project: Dayton ER Battery

Collection Date: 2/21/2023 9:50:00 AM

Lab ID: 2302A11-011

Matrix: SOIL

Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	2000	150		mg/Kg	50	2/24/2023 3:05:48 PM	73368
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JR
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	2/24/2023 1:28:12 AM	G94839
Surr: BFB	107	70-130		%Rec	1	2/24/2023 1:28:12 AM	G94839
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	12	9.4		mg/Kg	1	2/24/2023 1:23:45 PM	73339
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/24/2023 1:23:45 PM	73339
Surr: DNOP	92.8	69-147		%Rec	1	2/24/2023 1:23:45 PM	73339
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JR
Benzene	ND	0.018		mg/Kg	1	2/24/2023 1:28:12 AM	R94839
Toluene	ND	0.037		mg/Kg	1	2/24/2023 1:28:12 AM	R94839
Ethylbenzene	ND	0.037		mg/Kg	1	2/24/2023 1:28:12 AM	R94839
Xylenes, Total	ND	0.073		mg/Kg	1	2/24/2023 1:28:12 AM	R94839
Surr: 1,2-Dichloroethane-d4	95.7	70-130		%Rec	1	2/24/2023 1:28:12 AM	R94839
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	2/24/2023 1:28:12 AM	R94839
Surr: Dibromofluoromethane	101	70-130		%Rec	1	2/24/2023 1:28:12 AM	R94839
Surr: Toluene-d8	92.6	70-130		%Rec	1	2/24/2023 1:28:12 AM	R94839

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302A11

03-Mar-23

Client: EOG
Project: Dayton ER Battery

Sample ID: LCS-73368	SampType: ics		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 73368		RunNo: 94864							
Prep Date: 2/24/2023	Analysis Date: 2/24/2023		SeqNo: 3429240		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.5	90	110			

Sample ID: MB-73368	SampType: mbk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 73368		RunNo: 94864							
Prep Date: 2/24/2023	Analysis Date: 2/24/2023		SeqNo: 3429242		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302A11

03-Mar-23

Client: EOG
Project: Dayton ER Battery

Sample ID: LCS-73339	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73339	RunNo: 94863								
Prep Date: 2/23/2023	Analysis Date: 2/24/2023	SeqNo: 3428599	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.7	61.9	130			
Surr: DNOP	4.4		5.000		87.4	69	147			

Sample ID: MB-73339	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73339	RunNo: 94863								
Prep Date: 2/23/2023	Analysis Date: 2/24/2023	SeqNo: 3428601	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	9.5		10.00		94.6	69	147			

Sample ID: MB-73474	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73474	RunNo: 94965								
Prep Date: 3/2/2023	Analysis Date: 3/2/2023	SeqNo: 3434009	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.4		10.00		84.0	69	147			

Sample ID: LCS-73474	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73474	RunNo: 94965								
Prep Date: 3/2/2023	Analysis Date: 3/2/2023	SeqNo: 3434010	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		90.1	69	147			

Sample ID: MB-73456	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73456	RunNo: 94965								
Prep Date: 3/1/2023	Analysis Date: 3/2/2023	SeqNo: 3434451	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		113	69	147			

Sample ID: LCS-73456	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73456	RunNo: 94965								
Prep Date: 3/1/2023	Analysis Date: 3/2/2023	SeqNo: 3434452	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		100	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302A11

03-Mar-23

Client: EOG
Project: Dayton ER Battery

Sample ID: 100ng lcs	SampType: LCS		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: LCSS	Batch ID: R94839		RunNo: 94839							
Prep Date:	Analysis Date: 2/23/2023		SeqNo: 3427530		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	109	70	130			
Toluene	1.0	0.050	1.000	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.1	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.4	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		106	70	130			
Surr: Toluene-d8	0.46		0.5000		92.2	70	130			

Sample ID: MB	SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batch ID: R94839		RunNo: 94839							
Prep Date:	Analysis Date: 2/23/2023		SeqNo: 3427553		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.7	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.8	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		109	70	130			
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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302A11

03-Mar-23

Client: EOG
Project: Dayton ER Battery

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: G94839		RunNo: 94839							
Prep Date:	Analysis Date: 2/23/2023		SeqNo: 3427573		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	70	130			
Surr: BFB	530		500.0		106	70	130			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: PBS	Batch ID: G94839		RunNo: 94839							
Prep Date:	Analysis Date: 2/23/2023		SeqNo: 3427598		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	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 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



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

Sample Log-In Check List

Client Name: EOG Work Order Number: 2302A11 RcptNo: 1

Received By: Tracy Casarrubias 2/23/2023 7:30:00 AM
Completed By: Tracy Casarrubias 2/23/2023 8:18:26 AM
Reviewed By: SC 2/23/23

Chain of Custody

- 1. Is Chain of Custody complete? Yes [checked] No [] Not Present []
2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: TMC 2/23/23

Special Handling (if applicable)

- 15. Was client notified of all discrepancies with this order? Yes [] No [] NA [checked]

Person Notified: [] Date: []
By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person []
Regarding: []
Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 5.3, Good, Yes, Morty, [], []

Chain-of-Custody Record

Client: EOG Resources
 Mailing Address: On File
 Phone #: _____



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

Turn-Around Time: _____
 Standard Rush ULTS
 Project Name: Dayton ER Battery
 Project #: 25-00123-

Project Manager: Chance Dixon
 Sampler: Fernando Rodriguez
 On Ice: Yes No no
 # of Coolers: 1
 Cooler Temp (including ch): 5.4 0.1 - 5.3 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2/21/23	9:00	Soil	BES23-59	402	Ice	2302A11
2/21/23	9:05	Soil	BES23-60			001
2/21/23	9:10	Soil	BES23-61			002
2/21/23	9:15	Soil	BES23-62			003
2/21/23	9:20	Soil	BES23-63			004
2/21/23	9:25	Soil	BES23-63			005
2/21/23	9:30	Soil	BES23-64			006
2/21/23	9:35	Soil	BES23-65			007
2/21/23	9:40	Soil	BES23-66			008
2/21/23	9:45	Soil	BES23-67			009
2/21/23	9:50	Soil	BES23-68			010
						011

Accreditation: Az Compliance Level 4 (Full Validation)
 NELAC Other
 EDD (Type) _____

Date: 2/21/23 Time: 15:30 Relinquished by: [Signature]
 Date: 2/21/23 Time: 1900 Relinquished by: [Signature]

Analysis Request										
<input checked="" type="checkbox"/> BTEX	<input checked="" type="checkbox"/> TPH:8015D(GRO / DRO / MRO)	<input type="checkbox"/> 8081 Pesticides/8082 PCBs	<input type="checkbox"/> EDB (Method 504.1)	<input type="checkbox"/> PAHs by 8310 or 8270SIMS	<input type="checkbox"/> RCRA 8 Metals	<input type="checkbox"/> Cl ⁻ , Br ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , SO ₄ ²⁻	<input type="checkbox"/> 8260 (VOA)	<input type="checkbox"/> 8270 (Semi-VOA)	<input type="checkbox"/> Total Coliform (Present/Absent)	
<input checked="" type="checkbox"/> MTBE / TMB's (8021)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Received by: [Signature] Date: 2/21/23 Time: 015
 Received by: [Signature] Date: 2/23/23 Time: 7:30

Remarks: CC: Chance Dixon & Fernando Rodriguez
Direct Bill to EOG



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

March 08, 2023

Chance Dixon
EOG
105 South Fourth Street
Artesia, NM 88210
TEL:
FAX:

RE: Dayton ER Battery

OrderNo.: 2303173

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/3/2023 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2303173**

Date Reported: **3/8/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES23-54 4.5'

Project: Dayton ER Battery

Collection Date: 3/1/2023 12:00:00 PM

Lab ID: 2303173-001

Matrix: MEOH (SOIL)

Received Date: 3/3/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JTT
Chloride	2100	60		mg/Kg	20	3/3/2023 11:13:52 AM	73498
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/3/2023 1:48:27 PM	73494
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/3/2023 1:48:27 PM	73494
Surr: DNOP	101	69-147		%Rec	1	3/3/2023 1:48:27 PM	73494
EPA METHOD 8015D: GASOLINE RANGE							Analyst: CCM
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	3/3/2023 11:50:00 AM	GS95008
Surr: BFB	89.0	37.7-212		%Rec	1	3/3/2023 11:50:00 AM	GS95008
EPA METHOD 8021B: VOLATILES							Analyst: CCM
Benzene	ND	0.019		mg/Kg	1	3/3/2023 11:50:00 AM	BS95008
Toluene	ND	0.039		mg/Kg	1	3/3/2023 11:50:00 AM	BS95008
Ethylbenzene	ND	0.039		mg/Kg	1	3/3/2023 11:50:00 AM	BS95008
Xylenes, Total	ND	0.077		mg/Kg	1	3/3/2023 11:50:00 AM	BS95008
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	3/3/2023 11:50:00 AM	BS95008

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303173

08-Mar-23

Client: EOG
Project: Dayton ER Battery

Sample ID: MB-73498	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 73498	RunNo: 95029								
Prep Date: 3/3/2023	Analysis Date: 3/3/2023	SeqNo: 3436122	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73498	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 73498	RunNo: 95029								
Prep Date: 3/3/2023	Analysis Date: 3/3/2023	SeqNo: 3436123	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303173

08-Mar-23

Client: EOG
Project: Dayton ER Battery

Sample ID: LCS-73494	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 73494		RunNo: 95019							
Prep Date: 3/3/2023	Analysis Date: 3/3/2023		SeqNo: 3435790		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	90.9	61.9	130			
Surr: DNOP	4.6		5.000		91.2	69	147			

Sample ID: MB-73494	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 73494		RunNo: 95019							
Prep Date: 3/3/2023	Analysis Date: 3/3/2023		SeqNo: 3435793		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	9.2		10.00		91.9	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 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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303173

08-Mar-23

Client: EOG
Project: Dayton ER Battery

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: GS95008		RunNo: 95008							
Prep Date:	Analysis Date: 3/3/2023		SeqNo: 3436369		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	91.4	72.3	137			
Surr: BFB	2100		1000		213	37.7	212			S

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: GS95008		RunNo: 95008							
Prep Date:	Analysis Date: 3/3/2023		SeqNo: 3436370		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.8	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303173

08-Mar-23

Client: EOG
Project: Dayton ER Battery

Sample ID: 100ng btex lcs	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: BS95008		RunNo: 95008							
Prep Date:	Analysis Date: 3/3/2023		SeqNo: 3436432		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.8	80	120			
Toluene	0.89	0.050	1.000	0	89.4	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.2	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		105	70	130			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: BS95008		RunNo: 95008							
Prep Date:	Analysis Date: 3/3/2023		SeqNo: 3436433		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	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
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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

Client Name: EOG Work Order Number: 2303173 RcptNo: 1

Received By: Tracy Casarrubias 3/3/2023 7:30:00 AM

Completed By: Tracy Casarrubias 3/3/2023 7:37:24 AM

Reviewed By: [Signature] 3/3/23

Chain of Custody

1. Is Chain of Custody complete? Yes [] No [x] Not Present []

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes [x] No [] NA []

4. Were all samples received at a temperature of >0° C to 6.0°C Yes [x] No [] NA []

5. Sample(s) in proper container(s)? Yes [x] No []

6. Sufficient sample volume for indicated test(s)? Yes [x] No []

7. Are samples (except VOA and ONG) properly preserved? Yes [x] No []

8. Was preservative added to bottles? Yes [] No [x] NA []

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes [] No [] NA [x]

10. Were any sample containers received broken? Yes [] No [x]

11. Does paperwork match bottle labels? Yes [x] No []

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes [x] No []

13. Is it clear what analyses were requested? Yes [x] No []

14. Were all holding times able to be met? Yes [x] No []

(If no, notify customer for authorization.)

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted? Checked by: TMC 3/3/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes [] No [] NA [x]

Person Notified: [] Date: [] By Whom: [] Via: [] eMail [] Phone [] Fax [] In Person [] Regarding: [] Client Instructions: []

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 5.6, Good, Yes, Morty, [], []

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

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

COMMENTS

Action 209319

COMMENTS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 209319
	Action Type: [C-141] Release Corrective Action (C-141)

COMMENTS

Created By	Comment	Comment Date
michael.buchanan	We have received your closure report and final C-141 for Incident # nMLB1122253079 Daytona ER Battery, thank you. This closure is approved. Please let me know if you have any further questions. Regards, Mike Buchanan	5/1/2023

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CONDITIONS

Action 209319

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Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 209319
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	None	5/1/2023