



September 6, 2022

Vertex Project #: 22E-00716-011

Spill Closure Report: Julie #2 Battery (Section 8, Township 19 South, Range 25 East)
API: 30-015-25905
County: Eddy
Incident Report: NAB1714648527 (2RP-4225), NAB1736130254 (2RP-4531)

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

New Mexico Oil Conservation Division - District 2 - Eddy
811 South 1st Street
Artesia, New Mexico 88210

EOG Resources, Inc. (EOG) retained Vertex Resource Services Inc. (Vertex) to conduct Remediation for historical releases that occurred at the Julie #2 Battery, Incident NAB1714648527 and NAB1736130254 (hereafter referred to as "Julie"). EOG provided notifications to New Mexico Oil Conservation District (NMOCD) District 2 via submission of an initial C-141 Release Notification (Attachment 1). This letter provides a description of the Spill Assessment and includes a request for Spill Closure. The spill area is located at N 32.67018, W -104.50915.

Background

The site is located approximately 8.4 miles southwest of Dayton, New Mexico. The legal location for the site is Section 8, Township 19 South and Range 25 East in Eddy County, New Mexico. The spill area is located on private property. An aerial photograph and site schematic are included in Attachment 2. *The Geological Map of New Mexico* indicates the surface geology at Julie is comprised primarily of QP-Piedmont alluvial deposits from the Holocene to lower Pleistocene ages (New Mexico Bureau of Geology and Mineral Resources, 2021). The United States Department of Agriculture Web Soil Survey characterizes the soil at the site as Reagan-Upton association. The soil is well-drained with a high runoff and low to moderately high moisture levels in the profile. The karst geology potential for Julie is medium (United States Department of the Interior, Bureau of Land Management, 2018).

There is no surface water located at Julie. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 0.36 miles southwest of the site. At Julie, 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.

Incident Description

Two releases occurred at Julie on May 5, 2017, and December 10, 2017 due to malfunctioning check valve on the produced water line. The first release was reported on May 23, 2017 and second release reported on December 11, 2017. Both spills involved the release of produced water resulting in the approximate total of 65 barrels (bbl.) of produced water onto the engineered pad and part of the adjacent pasture. The second release occurred on top of the

vertex.ca

3101 Boyd Drive, Carlsbad, New Mexico 88220, USA | P 575.725.5001

EOG Resources, Inc.

Julie #2 Battery, NAB1714648527, NAB1736130254

2022 Spill Assessment and Closure

September 2022

same area the first release occurred. Approximately 52 bbl. of free fluid was removed during initial spill clean-up. The New Mexico Oil Conservation Division (NMOCD) C-141 Reports: NAB1714648527 and NAB1736130254 are included in Attachment 1. The Daily Field Report (DFRs) and site photographs are included in Attachment 4.

An initial site inspection of the spill area was completed by Souder, Miller, and Associates (SMA) on February 21, 2018, which identified the area of the spill specified in the initial C-141 Reports. SMA personnel estimated the approximate extent of the release and white lined the area thereafter as required for the 811 One Call request. The Remediation Workplan was submitted by SMA and approved by NMOCD.

The approved Remediation Workplan submitted by SMA stated that the scope of work was to complete excavation of the contaminated soil and place a liner within the excavation area before backfilling. EOG requested that Vertex complete excavation to the most stringent criteria of impacted soils to meet the stipulations requested by the private landowner.

The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 1.

Table 1. Closure Criteria for Soils Impacted by a Release		
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
<p style="text-align: center;">< 50 feet</p>	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 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 Taken

Vertex began remediation efforts on June 7, 2022, and completed confirmation sampling on August 25, 2022. Vertex personnel supervised the excavation of impacted soils throughout the remedial process. Field screening was completed on multiple sample points and consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dextil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and Titration/EC Meter (chlorides). 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 20.5 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 in the DFRs in Attachment 4.

As excavation progressed sample points were used to determine areas in need of further excavation and points determined above criteria were excavated out and a new sample point was used. An excavation schematic (Figure 1) is provided to show points that were stepped out and a confirmatory schematic (Figure 2) is provided to show the square

vertex.ca

3101 Boyd Drive, Carlsbad, New Mexico 88220, USA | P 575.725.5001

EOG Resources, Inc.

Julie #2 Battery, NAB1714648527, NAB1736130254

2022 Spill Assessment and Closure

September 2022

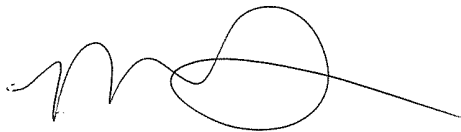
footage and sample points used for final confirmatory sampling. Field screening and laboratory results for confirmation sampling are in Table 2, Attachment 3.

Notification of confirmatory sample collection was provided to the NMOCD on multiple dates as listed: June 16, 2022, June 23, 2022, July 13, 2022, August 15, 2022, and August 22, 2022, and are included in Attachment 5. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 45 samples were collected for laboratory analysis following NMOCD soil sampling procedures. Total square footage of the excavation was approximately 1,815 square feet. Samples were submitted to Hall Environmental Laboratory 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.

Closure Request

These releases occurred prior to the passage of the Spill Rule (NMAC 19.15.29), however the NMOCD did approve a Remediation Plan to address the site. Although the remedial actions completed for the impacted area differed from the approval plan due to the landowner stipulations, the most stringent criteria of Table 1 were achieved during remediation of the site. Based off completion of these activities, EOG Resources, Inc. requests closure of the Incidents NAB1714648527 and NAB1736130254.

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 575.361.9880 or mpeppin@vertex.ca.



Monica Peppin, A.S.
PROJECT MANAGER, REPORTING

September 6, 2022

Date

Attachments

- Attachment 1. NMOCD C-141 Reports
- Attachment 2. Figures
- Attachment 3. Table 2 – Field screening and Laboratory Results
- Attachment 4. Daily Field Report(s) with Pictures
- Attachment 5. Confirmatory Sampling Notifications
- Attachment 6. Laboratory Data Reports and COCs

EOG Resources, Inc.
Julie #2 Battery, NAB1714648527, NAB1736130254

2022 Spill Assessment and Closure
September 2022

References

Interactive Geologic Map. New Mexico Bureau of Geology and Mineral Resources, (2022). Retrieved from <http://geoinfo.nmt.edu>

National Wetland Inventory Surface Waters and Wetland. United State Fish and Wildlife Service, (2022). Retrieved from <https://www.fws.gov/wetlands/data/mapper.html>

Natural Resources and Wildlife Oil and Gas Releases. New Mexico Oil Conservation Division, (2019). Santa Fe, New Mexico.

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>

Soil Survey, New Mexico. United States Department of Agriculture, Soil Conservation Service in Cooperation with New Mexico Agricultural Experiment Station. (1971). Retrieved from http://www.wipp.energy.gov/library/Information_Repository_A/Supplemental_Information/Chugg%20et%20al%201971%20w-map.pdf

EOG Resources, Inc.

Julie #2 Battery, NAB1714648527, NAB1736130254

2022 Spill Assessment and Closure

September 2022

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
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

NM OIL CONSERVATION

ARTESIA DISTRICT

MAY 23 2017

Form C-141
Revised August 8, 2011Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

nAB1714648527

Name of Company EOG Y Resources, Inc.	OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 th Street	Telephone No. 575-748-1471	
Facility Name Julie #2 Battery	Facility Type Battery	

New forms can be found in the
New Mexico State Website in forms:
[http://www.emnrd.state.nm.us/
OCD/forms.html](http://www.emnrd.state.nm.us/OCD/forms.html)

Surface Owner Fee	Mineral Owner Fee	API No. <i>30 D15-25905</i>
----------------------	----------------------	--------------------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	8	19S	25E	660	South	1980	West	Eddy

Latitude 32.67042 Longitude 104.50895

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 5 B/PW	Volume Recovered 2 B/PW
Source of Release Check Valve	Date and Hour of Occurrence 5/5/2017; AM	Date and Hour of Discovery 5/5/2017; AM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A check valve failed, causing the release. Vacuum truck(s) and roustabout crews were called.

Describe Area Affected and Cleanup Action Taken.*

An approximate area of 40'X 30'. Release was on the west side of the battery. The valves were closed, vacuum trucks were called and a roustabout crew was called to make repairs. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX. If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 10) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. **Depth to Ground Water: 50-99' (approximately 72', Section 17, T19S-R25E, per the NMOSE), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 10.**

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: <i>Robert Asher</i>	OIL CONSERVATION DIVISION	
Printed Name: Robert Asher	Signed By: <i>Robert Asher</i> Approved by Environmental Specialist	
Title: Environmental Supervisor	Approval Date: <i>5/26/17</i>	Expiration Date: <i>N/A</i>
E-mail Address: Robert.Asher@eogresources.com	Conditions of Approval: <i>See attached</i>	Attached <input type="checkbox"/>
Date: May 23, 2017 Phone: 575-748-4217	2RP-	

* Attach Additional Sheets If Necessary

2RP-4225

Incident ID	NAB1714648527
District RP	2RP-4225
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
Signature: Chase Settle Date: 09/07/2022
email: chase_settle@eogresources.com Telephone: 575-748-4171

OCD Only

Received by: OCD Date: 9/8/2022

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

Closure Approved by: Ashley Maxwell Date: 10/11/2022
Printed Name: Ashley Maxwell Title: Environmental Specialist

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

State of New Mexico
Energy Minerals and Natural Resources

NM OIL CONSERVATION

ARTESIA DISTRICT

DEC 19 2017

Form C-141
Revised April 3, 2017

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

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

NAB1736130254

Name of Company EOG Y Resources, Inc.	25575	Contact Chase Settle
Address 104 S. 4 th Street Artesia NM 88210		Telephone No. 575-748-1471
Facility Name Julie #2 Battery		Facility Type Battery

Surface Owner Private	Mineral Owner Private	API No. 30-015-25905
--------------------------	--------------------------	-------------------------

LOCATION OF RELEASE

Unit Letter N	Section 8	Township 19S	Range 25E	Feet from the 660	North/South Line South	Feet from the 1980	East/West Line West	County Eddy
------------------	--------------	-----------------	--------------	----------------------	---------------------------	-----------------------	------------------------	----------------

Latitude 32.67018 Longitude -104.50915 NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 60 B/PW	Volume Recovered 50 B/PW
Source of Release Check valve on produced water transfer line	Date and Hour of Occurrence 12/10/2017; PM	Date and Hour of Discovery 12/10/2017; 12:10 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher, Crystal Weaver	
By Whom? Robert Asher	Date and Hour December 11, 2017; 4:19 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

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

Describe Cause of Problem and Remedial Action Taken.*

There was a failure of a check valve on a produced water transfer line, which led to the release of produced water. A vacuum truck was called to recover standing fluid and a backhoe was dispatched to excavate impacted soils.

Describe Area Affected and Cleanup Action Taken.*

The impacted area was approximately 50 feet by 70 feet outside of the battery berm on the north side of the battery. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 0) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. **Depth to Ground Water: >100' (110', Section 8, T19S, R25E, per NMOSE, USGS), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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: <i>Chase Settle</i>	OIL CONSERVATION DIVISION	
Printed Name: Chase Settle	Approved by Environmental Specialist: <i>Accepted for record only</i>	
Title: Rep Safety & Environmental II	Approval Date: <i>12/26/17</i>	Expiration Date: <i>N/A</i>
E-mail Address: chase_settle@eogresources.com	Conditions of Approval:	Attached <i>22P-4531</i>
Date: December 19, 2017	Phone: 575-748-4171	<i>See attached</i>

* Attach Additional Sheets If Necessary

12/22/17 AB

Incident ID	NAB1736130254
District RP	2RP-4531
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Chase Settle Title: Rep Safety & Environmental Sr
Signature: Chase Settle Date: 09/07/2022
email: chase_settle@eogresources.com Telephone: 575-748-4171

OCD Only

Received by: OCD Date: 9/8/2022

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

Closure Approved by: Ashley Maxwell Date: 10/11/2022
Printed Name: Ashley Maxwell Title: Environmental Specialist

ATTACHMENT 2

Document Path: G:\1-Projects\US PROJECTS\EOG Resources Inc\22E-00716 (Howell Ranch Reclamation Projects)\011 - Julie #2 Tank Battery\Figure 1 Excavation Schematic Julie #2 Tank Battery.mxd



- Base Sample (Prefixed by "BES22-")
- ▲ Excavated Wall Sample (Prefixed by "WES22-")
- ▲ Wall Sample (Prefixed by "WES22-")

- - Pipeline (Aboveground)
- ▭ 4' Excavation (~973 sq. ft.)
- ▭ 6' Excavation (~922 sq. ft.)

- ▭ 20' Excavation (~303 sq. ft.)
- ▭ Lease Boundary



0 2.5 5 10 ft. Map Center:
 Lat: 32.670698,
 NAD 1983 UTM Zone 13N Long: -104.509359
 Date: Aug 30/22



Excavation Schematic Julie #2 Tank 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 image from Maxar, 2021. Feature locations from GPS, Vertex Professional Services Ltd., 2022

VERSATILITY. EXPERTISE.

Document Path: \\wks-sf01.corp.intel.shared\ps04 - Geomatics\1-Projects\US PROJECTS\EOG Resources Inc\22E-00716 (Howell Ranch Reclamation Projects)\011 - Julie #2 Tank Battery\Figure 2 Confirmatory Schematic Julie #2 Tank Battery.mxd



- Base Sample (Prefixed by "BES22-")
- ▲ Wall Sample (Prefixed by "WES22-")
- - Pipeline (Aboveground)
-  6' Excavation (~922 sq. ft.)
-  20' Excavation (~303 sq. ft.)
-  Lease Boundary



0 2.5 5 10 ft. Map Center:
 Lat: 32.670696,
 NAD 1983 UTM Zone 13N Long: -104.509366
 Date: Aug 31/22



Confirmatory Schematic Julie #2 Tank 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 image from Maxar, 2021. Feature locations from GPS, Vertex Professional Services Ltd., 2022

VERSATILITY. EXPERTISE.

ATTACHMENT 3

Client Name: EOG Resources, Inc.

Site Name: Julie #2 Tank Battery

NMOCD Tracking #: nAB1714648527

Project #: 22E-00716-011

Lab Reports: 2206E65, 2207061, 2207186, 2207B81, 2207B16, 2208G88

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)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
BES22-01	4	7/1/2022	0	0	128	ND	ND	ND	ND	ND	ND	ND	340
BES22-02	20	6/30/2022	0	55	128	ND	ND	ND	ND	ND	ND	ND	160
BES22-03	4	7/1/2022	0	51	115	ND	ND	ND	ND	ND	ND	ND	340
BES22-04	6	7/1/2022	0	44	415	ND	ND	ND	ND	ND	ND	ND	74
BES22-05	6	7/1/2022	0	113	310	ND	ND	ND	ND	ND	ND	ND	84
BES22-06	6	7/1/2022	0	84	31	ND	ND	ND	ND	ND	ND	ND	ND
BES22-07	6	7/1/2022	0	74	12	ND	ND	ND	ND	ND	ND	ND	ND
BES22-08	6	7/1/2022	0	70	31	ND	ND	ND	ND	ND	ND	ND	ND
BES22-09	20	7/21/2022	0	67	447	ND	ND	ND	ND	ND	ND	ND	890
BES22-09	20.5	8/25/2022	0	-	274	ND	ND	ND	ND	ND	ND	ND	ND
WES22-01	2	6/30/2022	0	9	49	ND	ND	ND	ND	ND	ND	ND	ND
WES22-05	2	6/27/2022	0	17	368	ND	ND	ND	ND	ND	ND	ND	360
WES22-05	4	6/27/2022	0	23	451	ND	ND	ND	ND	ND	ND	ND	430
WES22-08	2	6/30/2022	0	34	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-09	2	6/30/2022	0	54	305	ND	ND	ND	ND	ND	ND	ND	ND
WES22-15	5	6/29/2022	0	34	ND	ND	ND	ND	ND	ND	ND	ND	71
WES22-15	10	6/29/2022	0	64	355	ND	ND	ND	ND	ND	ND	ND	100
WES22-15	15	6/29/2022	0	161	408	ND	ND	ND	ND	ND	ND	ND	210
WES22-19	2	6/27/2022	0	52	480	ND	ND	ND	ND	ND	ND	ND	290
WES22-19	4	6/27/2022	0	51	425	ND	ND	ND	ND	ND	ND	ND	360
WES22-24	2	6/30/2022	0	0	259	ND	ND	ND	ND	ND	ND	ND	130
WES22-24	4	6/30/2022	0	73	193	ND	ND	ND	ND	ND	ND	ND	370
WES22-25	2	6/27/2022	0	28	421	ND	ND	ND	ND	ND	ND	ND	150
WES22-25	4	6/27/2022	0	21	495	ND	ND	ND	ND	ND	ND	ND	210
WES22-29	10	6/29/2022	0	14	53	ND	ND	ND	ND	ND	ND	ND	95
WES22-29	16	6/29/2022	0	64	106	ND	ND	ND	ND	ND	ND	ND	ND
WES22-35	2	6/30/2022	0	59	239	ND	ND	ND	ND	ND	ND	ND	ND
WES22-35	4	6/30/2022	0	116	233	ND	ND	ND	ND	ND	ND	ND	64
WES22-36	2	6/30/2022	0	23	142	ND	ND	ND	ND	ND	ND	ND	ND
WES22-36	4	6/30/2022	0	31	ND	ND	ND	ND	ND	ND	ND	ND	310
WES22-39	2	7/20/2022	0	12	ND	ND	ND	ND	ND	ND	ND	ND	100
WES22-39	4	7/20/2022	0	64	ND	ND	ND	ND	ND	ND	ND	ND	170
WES22-40	2	7/20/2022	0	34	ND	ND	ND	ND	ND	ND	ND	ND	ND
WES22-41	10	7/21/2022	0	25	245	ND	ND	ND	ND	ND	ND	ND	ND
WES22-42	16	7/21/2022	0	45	236	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit

"-." indicates not analyzed/assessed

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

ATTACHMENT 4



Daily Site Visit Report

Client:	EOG Resources Inc.	Inspection Date:	6/7/2022
Site Location Name:	Julie #2 Battery	Report Run Date:	6/7/2022 10:12 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	6/7/2022 8:10 AM
Departed Site	6/7/2022 3:15 PM

Field Notes

- 9:16** Arrived on site to begin remediation for historical release.
- 9:16** Secondary line sweep was performed. Two small pieces of metal found. No lines found.
- 9:26** Standard is currently working to hand spot pipeline in the area of the excavation. They will be working to get it fully exposed before digging out the proposed polygon
- 9:28** Once all pipelines are exposed and crew is aware of them, we will excavate the proposed excavation area down to 4' and begin sampling.

Next Steps & Recommendations

- 1 Continue remediation tomorrow

Daily Site Visit Report



Site Photos

Viewing Direction: East



Excavation area

Viewing Direction: Southeast



Excavation area

Viewing Direction: West



Current excavation

Viewing Direction: Northeast



Current excavation

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

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

Signature



Daily Site Visit Report

Client:	EOG Resources Inc.	Inspection Date:	7/20/2022
Site Location Name:	Julie #2 Battery	Report Run Date:	7/20/2022 11:09 PM
Client Contact Name:	Chase Settle	API #:	
Client Contact Phone #:	575-703-6537		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site 7/20/2022 8:00 AM

Departed Site 7/20/2022 3:45 PM

Field Notes

8:22 Water truck spraying road and loading area

8:24 Safety meeting complete, running line finder in sampling areas

8:33 Loader arrived on site with more skids

8:57 Standard coming up with a plan for how to support the produced water line

10:20 "Clean" sample at WES22-37 came back hot on titration. Will continue excavating

15:33 Sent out 5 truck loads



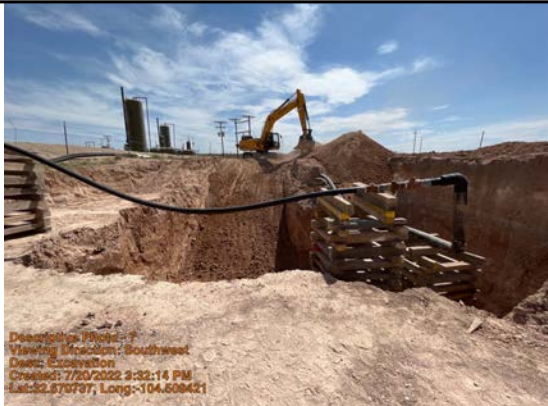

Next Steps & Recommendations

1 Sample north and east walls of 20' excavation

2 Continue hauling out dirt



Daily Site Visit Report

<p>Viewing Direction: South</p>  <p>Descriptive Photo - 5 Viewing Direction: South Desc: Setting up for excavation under pipe Created: 7/20/2022 1:11:34 AM Lat:32.670737, Long:-104.509408</p> <p>Setting up for excavation under pipe</p>	<p>Viewing Direction: Southwest</p>  <p>Descriptive Photo - 6 Viewing Direction: Southwest Desc: Supports installed Created: 7/20/2022 1:12:35 PM Lat:32.670734, Long:-104.509408</p> <p>Supports installed</p>
<p>Viewing Direction: Southwest</p>  <p>Descriptive Photo - 7 Viewing Direction: Southwest Desc: Excavation Created: 7/20/2022 3:32:14 PM Lat:32.670737, Long:-104.509421</p> <p>Excavation</p>	<p>Viewing Direction: South</p>  <p>Descriptive Photo - 8 Viewing Direction: South Desc: Excavation Created: 7/20/2022 3:32:41 PM Lat:32.670742, Long:-104.509422</p> <p>Excavation</p>

Daily Site Visit Report



Site Photos

Viewing Direction: South



Excavation this morning

Viewing Direction: East



20' excavation, will need some more excavation and stabilization before we can sample

Viewing Direction: South



Clean wall

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Sally Carttar

Signature:


Signature

ATTACHMENT 5

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: Julie 2 Battery (2RP-4425 & 2RP-4531) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, June 16, 2022 9:45 AM
To: Alan & Cheryl <ahowell@pvt.n.net>; Austin Weyant <austin@atkinseng.com>; 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: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Julie 2 Battery (2RP-4425 & 2RP-4531) Sampling Notification

Good Morning,

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

Julie 2 Battery
N-8-19S-25E; Eddy County, NM
2RP-4425 & 2RP-4531

Sampling will begin at 10:00 a.m. on Monday, June 20, 2022 through Friday, June 24, 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: Monday, June 27, 2022 7:52 AM
To: Monica Peppin
Subject: FW: Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, June 23, 2022 7:23 AM
To: Alan & Cheryl <ahowell@pvt.n.net>; Austin Weyant <austin@atkinseng.com>; 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: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification

Good Morning,

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

Julie 2 Battery
N-8-19S-25E
Eddy County, NM
2RP-4425 and 2RP-4531

Sampling will begin at 8:00 a.m. on Monday, June 27, 2022 and continue through Friday, July 1, 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: Thursday, July 14, 2022 11:19 AM
To: Monica Peppin
Cc: Michael Moffitt
Subject: FW: Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Wednesday, July 13, 2022 4:39 PM
To: Alan & Cheryl <ahowell@pvtm.net>; Austin Weyant <austin@atkinseng.com>; 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: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification

Good Afternoon,

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

Julie 2 Battery
N-8-19S-25E
Eddy County, NM
2RP-4425 and 2RP-4531

Sampling will begin at 8:00 a.m. on Monday, July 18, 2022 and continue through Friday, July 22, 2022.

Thank you,

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



From: [Chase Settle](#)
To: [Michael Moffitt](#); [Monica Peppin](#)
Subject: FW: Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification
Date: August 22, 2022 12:51:55 PM
Attachments:

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Monday, August 22, 2022 12:50 PM
To: Alan & Cheryl <ahowell@pvt.n.net>; Austin Weyant <austin@atkinseng.com>; 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: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification

Good Afternoon,

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

Julie 2 Battery
N-8-19S-25E
Eddy County, NM
2RP-4425 and 2RP-4531

Sampling will begin at 1:00 p.m. on Wednesday, August 24, 2022, and possibly be continuous through Friday, August 26, 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: August 17, 2022 1:53 PM
To: Michael Moffitt; Monica Peppin
Subject: FW: Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Monday, August 15, 2022 4:37 PM
To: Alan & Cheryl <ahowell@pvt.n.net>; Austin Weyant <austin@atkinseng.com>; 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: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification

Good Afternoon,

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

Julie 2 Battery
N-8-19S-25E
Eddy County, NM
2RP-4425 and 2RP-4531

Sampling will begin at 8:00 a.m. on Thursday, August 18, 2022, and possibly be continuous through Friday, August 19, 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: August 22, 2022 12:52 PM
To: Michael Moffitt; Monica Peppin
Subject: FW: Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Monday, August 22, 2022 12:50 PM
To: Alan & Cheryl <ahowell@pvt.n.net>; Austin Weyant <austin@atkinseng.com>; 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: Andrea Felix <Andrea_Felix@eogresources.com>; Katie Jamison <Katie_Jamison@eogresources.com>; Michael Yemm <Michael_Yemm@eogresources.com>; BODEE EUDY <BODEE_EUDY@eogresources.com>
Subject: Julie 2 Battery (2RP-4425 and 2RP-4531) Sampling Notification

Good Afternoon,

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

Julie 2 Battery
N-8-19S-25E
Eddy County, NM
2RP-4425 and 2RP-4531

Sampling will begin at 1:00 p.m. on Wednesday, August 24, 2022, and possibly be continuous through Friday, August 26, 2022.

Thank you,

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



ATTACHMENT 6



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

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Julie 2

OrderNo.: 2206E65

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 6 sample(s) on 6/28/2022 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 white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2206E65

Date Reported: 7/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-05 2'

Project: Julie 2

Collection Date: 6/27/2022 10:00:00 AM

Lab ID: 2206E65-001

Matrix: SOIL

Received Date: 6/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	360	60		mg/Kg	20	7/5/2022 6:24:54 PM	68541
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/6/2022 5:41:03 PM	68511
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/6/2022 5:41:03 PM	68511
Surr: DNOP	89.6	51.1-141		%Rec	1	7/6/2022 5:41:03 PM	68511
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/1/2022 2:54:54 AM	68435
Surr: BFB	98.1	37.7-212		%Rec	1	7/1/2022 2:54:54 AM	68435
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/1/2022 2:54:54 AM	68435
Toluene	ND	0.050		mg/Kg	1	7/1/2022 2:54:54 AM	68435
Ethylbenzene	ND	0.050		mg/Kg	1	7/1/2022 2:54:54 AM	68435
Xylenes, Total	ND	0.099		mg/Kg	1	7/1/2022 2:54:54 AM	68435
Surr: 4-Bromofluorobenzene	91.9	70-130		%Rec	1	7/1/2022 2:54:54 AM	68435

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

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

Page 1 of 10

Analytical Report

Lab Order 2206E65

Date Reported: 7/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-05 4'

Project: Julie 2

Collection Date: 6/27/2022 10:05:00 AM

Lab ID: 2206E65-002

Matrix: SOIL

Received Date: 6/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	430	60		mg/Kg	20	7/5/2022 7:02:07 PM	68541
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/6/2022 6:44:23 PM	68511
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/6/2022 6:44:23 PM	68511
Surr: DNOP	96.2	51.1-141		%Rec	1	7/6/2022 6:44:23 PM	68511
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/1/2022 3:18:19 AM	68435
Surr: BFB	104	37.7-212		%Rec	1	7/1/2022 3:18:19 AM	68435
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/1/2022 3:18:19 AM	68435
Toluene	ND	0.048		mg/Kg	1	7/1/2022 3:18:19 AM	68435
Ethylbenzene	ND	0.048		mg/Kg	1	7/1/2022 3:18:19 AM	68435
Xylenes, Total	ND	0.096		mg/Kg	1	7/1/2022 3:18:19 AM	68435
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	7/1/2022 3:18:19 AM	68435

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

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

Page 2 of 10

Analytical Report

Lab Order 2206E65

Date Reported: 7/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-19 2'

Project: Julie 2

Collection Date: 6/27/2022 10:10:00 AM

Lab ID: 2206E65-003

Matrix: SOIL

Received Date: 6/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	290	60		mg/Kg	20	7/5/2022 7:14:31 PM	68541
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/6/2022 7:08:21 PM	68511
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/6/2022 7:08:21 PM	68511
Surr: DNOP	87.9	51.1-141		%Rec	1	7/6/2022 7:08:21 PM	68511
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/1/2022 3:41:50 AM	68435
Surr: BFB	104	37.7-212		%Rec	1	7/1/2022 3:41:50 AM	68435
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	7/1/2022 3:41:50 AM	68435
Toluene	ND	0.047		mg/Kg	1	7/1/2022 3:41:50 AM	68435
Ethylbenzene	ND	0.047		mg/Kg	1	7/1/2022 3:41:50 AM	68435
Xylenes, Total	ND	0.094		mg/Kg	1	7/1/2022 3:41:50 AM	68435
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	7/1/2022 3:41:50 AM	68435

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

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

Page 3 of 10

Analytical Report

Lab Order 2206E65

Date Reported: 7/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-19 4'

Project: Julie 2

Collection Date: 6/27/2022 10:15:00 AM

Lab ID: 2206E65-004

Matrix: SOIL

Received Date: 6/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	360	60		mg/Kg	20	7/5/2022 7:51:45 PM	68541
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/6/2022 7:32:17 PM	68511
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/6/2022 7:32:17 PM	68511
Surr: DNOP	88.2	51.1-141		%Rec	1	7/6/2022 7:32:17 PM	68511
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/1/2022 4:05:27 AM	68435
Surr: BFB	104	37.7-212		%Rec	1	7/1/2022 4:05:27 AM	68435
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/1/2022 4:05:27 AM	68435
Toluene	ND	0.048		mg/Kg	1	7/1/2022 4:05:27 AM	68435
Ethylbenzene	ND	0.048		mg/Kg	1	7/1/2022 4:05:27 AM	68435
Xylenes, Total	ND	0.096		mg/Kg	1	7/1/2022 4:05:27 AM	68435
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	7/1/2022 4:05:27 AM	68435

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

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

Page 4 of 10

Analytical Report

Lab Order 2206E65

Date Reported: 7/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-25 2'

Project: Julie 2

Collection Date: 6/27/2022 10:20:00 AM

Lab ID: 2206E65-005

Matrix: SOIL

Received Date: 6/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	150	60		mg/Kg	20	7/5/2022 8:04:09 PM	68541
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/6/2022 7:56:18 PM	68511
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	7/6/2022 7:56:18 PM	68511
Surr: DNOP	87.0	51.1-141		%Rec	1	7/6/2022 7:56:18 PM	68511
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/1/2022 4:28:51 AM	68435
Surr: BFB	103	37.7-212		%Rec	1	7/1/2022 4:28:51 AM	68435
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/1/2022 4:28:51 AM	68435
Toluene	ND	0.047		mg/Kg	1	7/1/2022 4:28:51 AM	68435
Ethylbenzene	ND	0.047		mg/Kg	1	7/1/2022 4:28:51 AM	68435
Xylenes, Total	ND	0.094		mg/Kg	1	7/1/2022 4:28:51 AM	68435
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	7/1/2022 4:28:51 AM	68435

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

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

Page 5 of 10

Analytical Report

Lab Order 2206E65

Date Reported: 7/13/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-25 4'

Project: Julie 2

Collection Date: 6/27/2022 10:25:00 AM

Lab ID: 2206E65-006

Matrix: SOIL

Received Date: 6/28/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	210	59		mg/Kg	20	7/5/2022 5:54:56 PM	68553
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/6/2022 9:08:04 PM	68543
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/6/2022 9:08:04 PM	68543
Surr: DNOP	55.8	51.1-141		%Rec	1	7/6/2022 9:08:04 PM	68543
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/1/2022 11:08:23 AM	68445
Surr: BFB	94.0	37.7-212		%Rec	1	7/1/2022 11:08:23 AM	68445
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/1/2022 11:08:23 AM	68445
Toluene	ND	0.047		mg/Kg	1	7/1/2022 11:08:23 AM	68445
Ethylbenzene	ND	0.047		mg/Kg	1	7/1/2022 11:08:23 AM	68445
Xylenes, Total	ND	0.094		mg/Kg	1	7/1/2022 11:08:23 AM	68445
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	7/1/2022 11:08:23 AM	68445

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

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

Page 6 of 10

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

WO#: 2206E65

13-Jul-22

Client: EOG**Project:** Julie 2

Sample ID: MB-68553	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68553	RunNo: 89243								
Prep Date: 7/5/2022	Analysis Date: 7/5/2022	SeqNo: 3172487 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68553	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68553	RunNo: 89243								
Prep Date: 7/5/2022	Analysis Date: 7/5/2022	SeqNo: 3172488 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

Sample ID: MB-68541	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68541	RunNo: 89250								
Prep Date: 7/5/2022	Analysis Date: 7/5/2022	SeqNo: 3173124 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68541	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68541	RunNo: 89250								
Prep Date: 7/5/2022	Analysis Date: 7/5/2022	SeqNo: 3173125 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.9	90	110			

Qualifiers:

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

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

WO#: 2206E65

13-Jul-22

Client: EOG**Project:** Julie 2

Sample ID: LCS-68511	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 68511		RunNo: 89240							
Prep Date: 7/1/2022	Analysis Date: 7/5/2022		SeqNo: 3172709		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	85.6	64.4	127			
Surr: DNOP	4.6		5.000		92.4	51.1	141			

Sample ID: MB-68511	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 68511		RunNo: 89240							
Prep Date: 7/1/2022	Analysis Date: 7/5/2022		SeqNo: 3172711		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	8.7		10.00		87.3	51.1	141			

Sample ID: LCS-68543	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 68543		RunNo: 89259							
Prep Date: 7/5/2022	Analysis Date: 7/6/2022		SeqNo: 3173754		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	15	50.00	0	83.3	64.4	127			
Surr: DNOP	4.3		5.000		85.8	51.1	141			

Sample ID: MB-68543	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 68543		RunNo: 89259							
Prep Date: 7/5/2022	Analysis Date: 7/6/2022		SeqNo: 3173755		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		88.4	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

Page 8 of 10

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

WO#: 2206E65

13-Jul-22

Client: EOG**Project:** Julie 2

Sample ID: ics-68435	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 68435				RunNo: 89164					
Prep Date: 6/29/2022	Analysis Date: 6/30/2022				SeqNo: 3169081	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	90.3	72.3	137			
Surr: BFB	1900		1000		191	37.7	212			

Sample ID: mb-68435	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 68435				RunNo: 89164					
Prep Date: 6/29/2022	Analysis Date: 6/30/2022				SeqNo: 3169083	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	910		1000		90.7	37.7	212			

Sample ID: mb-68445	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 68445				RunNo: 89209					
Prep Date: 6/29/2022	Analysis Date: 7/1/2022				SeqNo: 3171002	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		96.9	37.7	212			

Sample ID: ics-68445	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 68445				RunNo: 89209					
Prep Date: 6/29/2022	Analysis Date: 7/1/2022				SeqNo: 3171003	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	113	72.3	137			
Surr: BFB	2100		1000		213	37.7	212			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#: 2206E65

13-Jul-22

Client: EOG**Project:** Julie 2

Sample ID: lcs-68435	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 68435			RunNo: 89164						
Prep Date: 6/29/2022	Analysis Date: 6/30/2022			SeqNo: 3169125		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	87.6	80	120			
Toluene	0.90	0.050	1.000	0	89.8	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	88.4	80	120			
Surr: 4-Bromofluorobenzene	0.83		1.000		83.0	70	130			

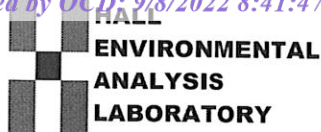
Sample ID: mb-68435	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 68435			RunNo: 89164						
Prep Date: 6/29/2022	Analysis Date: 6/30/2022			SeqNo: 3169126		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.85		1.000		84.9	70	130			

Sample ID: mb-68445	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 68445			RunNo: 89209						
Prep Date: 6/29/2022	Analysis Date: 7/1/2022			SeqNo: 3171086		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		90.9	70	130			

Sample ID: LCS-68445	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 68445			RunNo: 89209						
Prep Date: 6/29/2022	Analysis Date: 7/1/2022			SeqNo: 3171087		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	87.6	80	120			
Toluene	0.91	0.050	1.000	0	91.3	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.2	80	120			
Surr: 4-Bromofluorobenzene	0.90		1.000		89.6	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: 2206E65

RcptNo: 1

Received By: Desiree Dominguez 6/28/2022 8:00:00 AM

Completed By: Desiree Dominguez 6/28/2022 8:30:01 AM

Reviewed By:

KSH 6-28-22

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: JN 6/28/22

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good				

Chain-of-Custody Record

Client:

EOG Vertex

Mailing Address:

ON FIRE

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)

Accreditation:

☐ Az Compliance☐ NELAC☐ Other☐ EDD (Type)

Sampler: CD

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 5.6 - 0.1 = 5.5 (°C)

Date	Time	Matrix	Sample Name
8/27	10:00	SOIL	WES22-05 2'
	10:05		WES22-05 4'
	10:10		WES22-19 2'
	10:15		WES22-19 4'
	10:20		WES22-25 2'
	10:25		WES22-25 4'

Container Type and #

4 OZ

Preservative Type

ICE

HEAL No.

2206 E65

-001

-002

-003

-004

-005

-006

Date:

Time:

Relinquished by:

Date:

Time:

Relinquished by:

Received by:

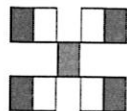
Date:

Time:

Remarks:

CC: Chance Dixon

Direct Bill EOG

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 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)
BTEX / MTBE / TMB's (8021)								



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

July 27, 2022

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

RE: Julie 2 Battery

OrderNo.: 2207B16

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/22/2022 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".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2207B16

Date Reported: 7/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-39 0-2'

Project: Julie 2 Battery

Collection Date: 7/20/2022 1:30:00 PM

Lab ID: 2207B16-001

Matrix: SOIL

Received Date: 7/22/2022 7:00:00 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	7/25/2022 3:50:50 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/25/2022 3:50:50 PM
Surr: DNOP	77.2	21-129		%Rec	1	7/25/2022 3:50:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/25/2022 2:31:39 PM
Surr: BFB	108	37.7-212		%Rec	1	7/25/2022 2:31:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/25/2022 2:31:39 PM
Toluene	ND	0.049		mg/Kg	1	7/25/2022 2:31:39 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/25/2022 2:31:39 PM
Xylenes, Total	ND	0.098		mg/Kg	1	7/25/2022 2:31:39 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	7/25/2022 2:31:39 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	100	60		mg/Kg	20	7/22/2022 7:17:19 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		

Page 1 of 7

Analytical Report

Lab Order 2207B16

Date Reported: 7/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-39 2-4'

Project: Julie 2 Battery

Collection Date: 7/20/2022 1:40:00 PM

Lab ID: 2207B16-002

Matrix: SOIL

Received Date: 7/22/2022 7:00:00 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	7/25/2022 4:04:21 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/25/2022 4:04:21 PM
Surr: DNOP	80.9	21-129		%Rec	1	7/25/2022 4:04:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/25/2022 3:43:06 PM
Surr: BFB	110	37.7-212		%Rec	1	7/25/2022 3:43:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2022 3:43:06 PM
Toluene	ND	0.049		mg/Kg	1	7/25/2022 3:43:06 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/25/2022 3:43:06 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/25/2022 3:43:06 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	7/25/2022 3:43:06 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	170	60		mg/Kg	20	7/22/2022 7:54:23 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		

Page 2 of 7

Analytical Report

Lab Order 2207B16

Date Reported: 7/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-40 0-4'

Project: Julie 2 Battery

Collection Date: 7/20/2022 1:50:00 PM

Lab ID: 2207B16-003

Matrix: SOIL

Received Date: 7/22/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	7/25/2022 4:18:20 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	7/25/2022 4:18:20 PM
Surr: DNOP	65.0	21-129		%Rec	1	7/25/2022 4:18:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/25/2022 4:54:38 PM
Surr: BFB	105	37.7-212		%Rec	1	7/25/2022 4:54:38 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/25/2022 4:54:38 PM
Toluene	ND	0.049		mg/Kg	1	7/25/2022 4:54:38 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/25/2022 4:54:38 PM
Xylenes, Total	ND	0.097		mg/Kg	1	7/25/2022 4:54:38 PM
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	7/25/2022 4:54:38 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/22/2022 8:06:44 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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 3 of 7

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

WO#: 2207B16

27-Jul-22

Client: Vertex Resources Services, Inc.**Project:** Julie 2 Battery

Sample ID: MB-69006	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 69006	RunNo: 89746								
Prep Date: 7/22/2022	Analysis Date: 7/22/2022	SeqNo: 3195741	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-69006	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 69006	RunNo: 89746								
Prep Date: 7/22/2022	Analysis Date: 7/22/2022	SeqNo: 3195742	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.0	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2207B16

27-Jul-22

Client: Vertex Resources Services, Inc.**Project:** Julie 2 Battery

Sample ID: MB-68995	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68995	RunNo: 89755								
Prep Date: 7/22/2022	Analysis Date: 7/25/2022	SeqNo: 3197420 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	8.2		10.00		81.9	21	129			

Sample ID: LCS-68995	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68995	RunNo: 89755								
Prep Date: 7/22/2022	Analysis Date: 7/25/2022	SeqNo: 3197422 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	85.5	64.4	127			
Surr: DNOP	3.8		5.000		76.9	21	129			

Sample ID: 2207B16-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WES22-39 0-2'	Batch ID: 68995	RunNo: 89755								
Prep Date: 7/22/2022	Analysis Date: 7/25/2022	SeqNo: 3197450 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	34	14	47.85	0	71.5	36.1	154			
Surr: DNOP	4.0		4.785		82.8	21	129			

Sample ID: 2207B16-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WES22-39 0-2'	Batch ID: 68995	RunNo: 89755								
Prep Date: 7/22/2022	Analysis Date: 7/25/2022	SeqNo: 3197452 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	14	47.71	0	76.9	36.1	154	6.98	33.9	
Surr: DNOP	3.7		4.771		77.6	21	129	0	0	

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#: 2207B16

27-Jul-22

Client: Vertex Resources Services, Inc.**Project:** Julie 2 Battery

Sample ID: mb-68990	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 68990		RunNo: 89759							
Prep Date: 7/22/2022	Analysis Date: 7/25/2022		SeqNo: 3196558		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			

Sample ID: lcs-68990	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 68990		RunNo: 89759							
Prep Date: 7/22/2022	Analysis Date: 7/25/2022		SeqNo: 3196559		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	2000		1000		201	37.7	212			

Sample ID: 2207b16-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WES22-39 0-2'	Batch ID: 68990		RunNo: 89759							
Prep Date: 7/22/2022	Analysis Date: 7/25/2022		SeqNo: 3196561		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.46	0	106	70	130			
Surr: BFB	2100		978.5		215	37.7	212			S

Sample ID: 2207b16-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WES22-39 0-2'	Batch ID: 68990		RunNo: 89759							
Prep Date: 7/22/2022	Analysis Date: 7/25/2022		SeqNo: 3196562		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.39	0	99.4	70	130	6.42	20	
Surr: BFB	2000		975.6		202	37.7	212	0	0	

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#: 2207B16

27-Jul-22

Client: Vertex Resources Services, Inc.**Project:** Julie 2 Battery

Sample ID: mb-68990	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 68990	RunNo: 89759								
Prep Date: 7/22/2022	Analysis Date: 7/25/2022	SeqNo: 3196597 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		97.3	70	130			

Sample ID: LCS-68990	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 68990	RunNo: 89759								
Prep Date: 7/22/2022	Analysis Date: 7/25/2022	SeqNo: 3196598 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	95.5	80	120			
Toluene	0.99	0.050	1.000	0	98.6	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.4	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: 2207b16-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: WES22-39 2-4'	Batch ID: 68990	RunNo: 89759								
Prep Date: 7/22/2022	Analysis Date: 7/25/2022	SeqNo: 3196601 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	0.9930	0	90.6	68.8	120			
Toluene	0.94	0.050	0.9930	0	94.7	73.6	124			
Ethylbenzene	0.94	0.050	0.9930	0	95.1	72.7	129			
Xylenes, Total	2.8	0.099	2.979	0	94.3	75.7	126			
Surr: 4-Bromofluorobenzene	1.0		0.9930		101	70	130			

Sample ID: 2207b16-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: WES22-39 2-4'	Batch ID: 68990	RunNo: 89759								
Prep Date: 7/22/2022	Analysis Date: 7/25/2022	SeqNo: 3196602 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	0.9872	0	95.4	68.8	120	4.50	20	
Toluene	0.98	0.049	0.9872	0	98.8	73.6	124	3.70	20	
Ethylbenzene	0.98	0.049	0.9872	0	99.8	72.7	129	4.25	20	
Xylenes, Total	3.0	0.099	2.962	0	100	75.7	126	5.39	20	
Surr: 4-Bromofluorobenzene	1.0		0.9872		103	70	130	0	0	

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: **Vertex Resources
Services, Inc.**

Work Order Number: **2207B16**

RcptNo: 1

Received By: **Juan Rojas**

7/22/2022 7:00:00 AM

Completed By: **Cheyenne Cason**

7/22/2022 7:35:18 AM

Reviewed By: *sa 7/22/22*

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *ja 7/22/22*

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	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

July 28, 2022

Monica Peppin

EOG

105 South Fourth Street

Artesia, NM 88210

TEL:

FAX:

RE: Julie 2 Battery

OrderNo.: 2207B81

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/23/2022 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 2207B81

Date Reported: 7/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-41- 10'

Project: Julie 2 Battery

Collection Date: 7/21/2022 1:40:00 PM

Lab ID: 2207B81-001

Matrix: SOIL

Received Date: 7/23/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	ND	60		mg/Kg	20	7/26/2022 1:53:46 PM	69062
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/27/2022 1:07:39 AM	69038
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/27/2022 1:07:39 AM	69038
Surr: DNOP	90.9	21-129		%Rec	1	7/27/2022 1:07:39 AM	69038
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/25/2022 7:17:18 PM	69014
Surr: BFB	106	37.7-212		%Rec	1	7/25/2022 7:17:18 PM	69014
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2022 7:17:18 PM	69014
Toluene	ND	0.049		mg/Kg	1	7/25/2022 7:17:18 PM	69014
Ethylbenzene	ND	0.049		mg/Kg	1	7/25/2022 7:17:18 PM	69014
Xylenes, Total	ND	0.099		mg/Kg	1	7/25/2022 7:17:18 PM	69014
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	7/25/2022 7:17:18 PM	69014

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

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

Page 1 of 7

Analytical Report

Lab Order 2207B81

Date Reported: 7/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: WES22-42 - 16'

Project: Julie 2 Battery

Collection Date: 7/21/2022 1:30:00 PM

Lab ID: 2207B81-002

Matrix: SOIL

Received Date: 7/23/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	ND	60		mg/Kg	20	7/26/2022 2:06:10 PM	69062
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/27/2022 2:21:23 AM	69038
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/27/2022 2:21:23 AM	69038
Surr: DNOP	87.7	21-129		%Rec	1	7/27/2022 2:21:23 AM	69038
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/25/2022 8:28:34 PM	69014
Surr: BFB	105	37.7-212		%Rec	1	7/25/2022 8:28:34 PM	69014
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/25/2022 8:28:34 PM	69014
Toluene	ND	0.049		mg/Kg	1	7/25/2022 8:28:34 PM	69014
Ethylbenzene	ND	0.049		mg/Kg	1	7/25/2022 8:28:34 PM	69014
Xylenes, Total	ND	0.097		mg/Kg	1	7/25/2022 8:28:34 PM	69014
Surr: 4-Bromofluorobenzene	98.7	70-130		%Rec	1	7/25/2022 8:28:34 PM	69014

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

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

Page 2 of 7

Analytical Report

Lab Order 2207B81

Date Reported: 7/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG

Client Sample ID: BES22-09 - 20'

Project: Julie 2 Battery

Collection Date: 7/21/2022 1:50:00 PM

Lab ID: 2207B81-003

Matrix: SOIL

Received Date: 7/23/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: NAI
Chloride	890	60		mg/Kg	20	7/26/2022 2:18:34 PM	69062
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	7/27/2022 2:45:51 AM	69038
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/27/2022 2:45:51 AM	69038
Surr: DNOP	92.0	21-129		%Rec	1	7/27/2022 2:45:51 AM	69038
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/25/2022 9:39:35 PM	69014
Surr: BFB	104	37.7-212		%Rec	1	7/25/2022 9:39:35 PM	69014
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/25/2022 9:39:35 PM	69014
Toluene	ND	0.050		mg/Kg	1	7/25/2022 9:39:35 PM	69014
Ethylbenzene	ND	0.050		mg/Kg	1	7/25/2022 9:39:35 PM	69014
Xylenes, Total	ND	0.10		mg/Kg	1	7/25/2022 9:39:35 PM	69014
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	7/25/2022 9:39:35 PM	69014

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

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

Page 3 of 7

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2207B81

28-Jul-22

Client: EOG
Project: Julie 2 Battery

Sample ID: MB-69062	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 69062	RunNo: 89791								
Prep Date: 7/26/2022	Analysis Date: 7/26/2022	SeqNo: 3198665	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-69062	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 69062	RunNo: 89791								
Prep Date: 7/26/2022	Analysis Date: 7/26/2022	SeqNo: 3198666	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			

Qualifiers:

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

Page 4 of 7

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

WO#: 2207B81

28-Jul-22

Client: EOG
Project: Julie 2 Battery

Sample ID: LCS-69038	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 69038		RunNo: 89790							
Prep Date: 7/25/2022	Analysis Date: 7/26/2022		SeqNo: 3197677		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	85.5	64.4	127			
Surr: DNOP	4.3		5.000		86.7	21	129			

Sample ID: MB-69038	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 69038		RunNo: 89790							
Prep Date: 7/25/2022	Analysis Date: 7/26/2022		SeqNo: 3197678		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	8.5		10.00		84.9	21	129			

Qualifiers:

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

Page 5 of 7

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

WO#: 2207B81

28-Jul-22

Client: EOG
Project: Julie 2 Battery

Sample ID: mb-69014	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 69014	RunNo: 89759								
Prep Date: 7/23/2022	Analysis Date: 7/25/2022	SeqNo: 3196547	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			

Sample ID: lcs-69014	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 69014	RunNo: 89759								
Prep Date: 7/23/2022	Analysis Date: 7/25/2022	SeqNo: 3196548	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	72.3	137			
Surr: BFB	2100		1000		209	37.7	212			

Qualifiers:

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

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

WO#: 2207B81

28-Jul-22

Client: EOG
Project: Julie 2 Battery

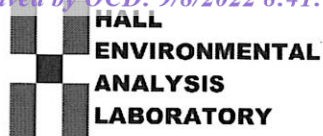
Sample ID: mb-69014	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 69014	RunNo: 89759								
Prep Date: 7/23/2022	Analysis Date: 7/25/2022	SeqNo: 3196589 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	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			

Sample ID: LCS-69014	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 69014	RunNo: 89759								
Prep Date: 7/23/2022	Analysis Date: 7/25/2022	SeqNo: 3196590 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.6	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	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		

Page 7 of 7



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: 2207B81

RcptNo: 1

Received By: Juan Rojas

7/23/2022 8:10:00 AM

Juan Rojas

Completed By: Juan Rojas

7/23/2022 9:20:37 AM

*Juan Rojas*Reviewed By: *PN 07/23/2022*

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *YN 7/23/22*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.2	Good				



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

August 31, 2022

Michael Moffitt

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: Julie 2 Battery

OrderNo.: 2208G88

Dear Michael Moffitt:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/27/2022 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".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2208G88

Date Reported: 8/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-09 20.5

Project: Julie 2 Battery

Collection Date: 8/25/2022 9:00:00 AM

Lab ID: 2208G88-001

Matrix: MEOH (SOIL)

Received Date: 8/27/2022 9:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/30/2022 1:44:15 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/30/2022 1:44:15 AM
Surr: DNOP	88.0	21-129		%Rec	1	8/30/2022 1:44:15 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	2.9		mg/Kg	1	8/27/2022 12:40:00 PM
Surr: BFB	111	37.7-212		%Rec	1	8/27/2022 12:40:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.015		mg/Kg	1	8/27/2022 12:40:00 PM
Toluene	ND	0.029		mg/Kg	1	8/27/2022 12:40:00 PM
Ethylbenzene	ND	0.029		mg/Kg	1	8/27/2022 12:40:00 PM
Xylenes, Total	ND	0.059		mg/Kg	1	8/27/2022 12:40:00 PM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	8/27/2022 12:40:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	8/29/2022 3:56:08 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	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#: 2208G88

31-Aug-22

Client: Vertex Resources Services, Inc.**Project:** Julie 2 Battery

Sample ID: MB-69832	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 69832	RunNo: 90648								
Prep Date: 8/29/2022	Analysis Date: 8/29/2022	SeqNo: 3239411	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-69832	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 69832	RunNo: 90648								
Prep Date: 8/29/2022	Analysis Date: 8/29/2022	SeqNo: 3239412	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Qualifiers:

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

Page 2 of 7

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

WO#: 2208G88

31-Aug-22

Client: Vertex Resources Services, Inc.**Project:** Julie 2 Battery

Sample ID: LCS-69815	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 69815			RunNo: 90634						
Prep Date: 8/29/2022	Analysis Date: 8/29/2022			SeqNo: 3238730	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		73.9	21	129			

Sample ID: MB-69815	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 69815			RunNo: 90634						
Prep Date: 8/29/2022	Analysis Date: 8/29/2022			SeqNo: 3238731	Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.4		10.00		83.6	21	129			

Sample ID: LCS-69828	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 69828			RunNo: 90634						
Prep Date: 8/29/2022	Analysis Date: 8/30/2022			SeqNo: 3239246	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	50.00	0	87.5	64.4	127			
Surr: DNOP	3.9		5.000		77.2	21	129			

Sample ID: MB-69828	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 69828			RunNo: 90634						
Prep Date: 8/29/2022	Analysis Date: 8/30/2022			SeqNo: 3239248	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.9	21	129			

Sample ID: 2208G88-001AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BES22-09 20.5	Batch ID: 69828			RunNo: 90634						
Prep Date: 8/29/2022	Analysis Date: 8/30/2022			SeqNo: 3239369	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	31	13	41.91	0	74.2	36.1	154			
Surr: DNOP	3.3		4.191		79.5	21	129			

Sample ID: 2208G88-001AMSD	SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BES22-09 20.5	Batch ID: 69828			RunNo: 90634						
Prep Date: 8/29/2022	Analysis Date: 8/30/2022			SeqNo: 3239370	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	33	13	44.60	0	74.7	36.1	154	6.89	33.9	

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#: 2208G88
31-Aug-22

Client: Vertex Resources Services, Inc.
Project: Julie 2 Battery

Sample ID: 2208G88-001AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BES22-09 20.5		Batch ID: 69828		RunNo: 90634						
Prep Date: 8/29/2022		Analysis Date: 8/30/2022		SeqNo: 3239370		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.5		4.460		78.0	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#: 2208G88

31-Aug-22

Client: Vertex Resources Services, Inc.**Project:** Julie 2 Battery

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: A90618		RunNo: 90618							
Prep Date:	Analysis Date: 8/27/2022		SeqNo: 3237682		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	113	72.3	137			
Surr: BFB	2300		1000		232	37.7	212			S

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: A90618		RunNo: 90618							
Prep Date:	Analysis Date: 8/27/2022		SeqNo: 3237683		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		108	37.7	212			

Sample ID: 2208g88-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BES22-09 20.5	Batch ID: A90618		RunNo: 90618							
Prep Date:	Analysis Date: 8/27/2022		SeqNo: 3237685		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	2.9	14.66	0	104	70	130			
Surr: BFB	1300		586.2		222	37.7	212			S

Sample ID: 2208g88-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BES22-09 20.5	Batch ID: A90618		RunNo: 90618							
Prep Date:	Analysis Date: 8/27/2022		SeqNo: 3237686		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	15	2.9	14.66	0	101	70	130	3.09	20	
Surr: BFB	1300		586.2		217	37.7	212	0	0	S

Sample ID: 2.5ug gro lcs 2	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: C90618		RunNo: 90618							
Prep Date:	Analysis Date: 8/27/2022		SeqNo: 3237706		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2200		1000		221	37.7	212			S

Sample ID: mb 2	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: C90618		RunNo: 90618							
Prep Date:	Analysis Date: 8/27/2022		SeqNo: 3237707		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		103	37.7	212			

Qualifiers:

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

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

WO#: 2208G88

31-Aug-22

Client: Vertex Resources Services, Inc.**Project:** Julie 2 Battery

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: B90618	RunNo: 90618								
Prep Date:	Analysis Date: 8/27/2022	SeqNo: 3237718 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	95.9	80	120			
Toluene	0.99	0.050	1.000	0	98.6	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.8	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: B90618	RunNo: 90618								
Prep Date:	Analysis Date: 8/27/2022	SeqNo: 3237719 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		102	70	130			

Sample ID: 2208g88-001amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BES22-09 20.5	Batch ID: B90618	RunNo: 90618								
Prep Date:	Analysis Date: 8/27/2022	SeqNo: 3237724 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.58	0.015	0.5862	0	98.8	68.8	120	5.53	20	
Toluene	0.60	0.029	0.5862	0	102	73.6	124	5.60	20	
Ethylbenzene	0.61	0.029	0.5862	0	104	72.7	129	5.14	20	
Xylenes, Total	1.8	0.059	1.759	0	104	75.7	126	5.16	20	
Surr: 4-Bromofluorobenzene	0.61		0.5862		104	70	130	0	0	

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: D90618	RunNo: 90618								
Prep Date:	Analysis Date: 8/27/2022	SeqNo: 3237742 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	70	130			

Sample ID: mb 2	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: D90618	RunNo: 90618								
Prep Date:	Analysis Date: 8/27/2022	SeqNo: 3237743 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2208G88

31-Aug-22

Client: Vertex Resources Services, Inc.**Project:** Julie 2 Battery

Sample ID: mb 2	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: D90618	RunNo: 90618								
Prep Date:	Analysis Date: 8/27/2022	SeqNo: 3237743		Units: %Rec						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	70	130			

Qualifiers:

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

Page 7 of 7



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: 2208G88

RcptNo: 1

Received By: Tracy Casarrubias 8/27/2022 9:35:00 AM

Completed By: Isaiah Ortiz 8/27/2022 9:54:25 AM

Reviewed By: TML

8/27

IOX

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: IO
8-27-22
(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

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	4.0	Good	Not Present			
2	4.8	Good	Not Present			
3	5.6	Good	Not Present			

Chain-of-Custody Record

Client:

E061 Party

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: 24-Hour

Standard ☒ Rush

Project Name:

Jung #2 Battery

Project #:

ZZE-00716-011

Project Manager:

Michael Moffitt

Sampler:

On Ice: ☒ Yes ☐ No

of Coolers:

3

Cooler Temp (including CF): See Remarks (°C)

Container Type and #

Preservative Type

HEAL No. 2708688

Date

Time

Matrix

Sample Name

8/25 9:00

5011

BES22-09

20.5

402

Ice

DO1

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, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Date:

Time:

Relinquished by:

Received by:

Via:

Date

Time

Remarks:

CC: Monica

1.) 4.0

4.0°C

Time:

Relinquished by:

Received by:

Via:

Date

Time

Remarks:

CC: Monica

1.) 4.0

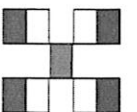
4.0°C

Direct Bill E06 2.) 4.8

-8 = 4.8°C

3.) 6.6

5.6°C


**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request



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

July 14, 2022

Monica Peppin

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Julie 2 Battery

OrderNo.: 2207061

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 24 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 horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-15 5'

Project: Julie 2 Battery

Collection Date: 6/29/2022 9:00:00 AM

Lab ID: 2207061-001

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	7/8/2022 11:23:03 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 11:23:03 PM
Surr: DNOP	116	51.1-141		%Rec	1	7/8/2022 11:23:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/7/2022 1:51:00 AM
Surr: BFB	97.1	37.7-212		%Rec	1	7/7/2022 1:51:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/7/2022 1:51:00 AM
Toluene	ND	0.049		mg/Kg	1	7/7/2022 1:51:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/7/2022 1:51:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/7/2022 1:51:00 AM
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	7/7/2022 1:51:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	71	60		mg/Kg	20	7/8/2022 7:56:20 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	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 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-15 10'

Project: Julie 2 Battery

Collection Date: 6/29/2022 9:05:00 AM

Lab ID: 2207061-002

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	7/8/2022 11:47:00 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/8/2022 11:47:00 PM
Surr: DNOP	70.2	51.1-141		%Rec	1	7/8/2022 11:47:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/7/2022 2:11:00 AM
Surr: BFB	100	37.7-212		%Rec	1	7/7/2022 2:11:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/7/2022 2:11:00 AM
Toluene	ND	0.049		mg/Kg	1	7/7/2022 2:11:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/7/2022 2:11:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/7/2022 2:11:00 AM
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	7/7/2022 2:11:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	100	60		mg/Kg	20	7/8/2022 8:08:41 PM

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

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

Page 2 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-15 15'

Project: Julie 2 Battery

Collection Date: 6/29/2022 9:10:00 AM

Lab ID: 2207061-003

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: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/9/2022 12:10:54 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/9/2022 12:10:54 AM
Surr: DNOP	112	51.1-141		%Rec	1	7/9/2022 12:10:54 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/7/2022 2:30:00 AM
Surr: BFB	98.6	37.7-212		%Rec	1	7/7/2022 2:30:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	7/7/2022 2:30:00 AM
Toluene	ND	0.047		mg/Kg	1	7/7/2022 2:30:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	7/7/2022 2:30:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	7/7/2022 2:30:00 AM
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	7/7/2022 2:30:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	210	60		mg/Kg	20	7/8/2022 9:35:05 PM

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

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

Page 3 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-28 10'

Project: Julie 2 Battery

Collection Date: 6/29/2022 9:15:00 AM

Lab ID: 2207061-004

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	7/9/2022 12:34:50 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/9/2022 12:34:50 AM
Surr: DNOP	86.2	51.1-141		%Rec	1	7/9/2022 12:34:50 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/7/2022 2:50:00 AM
Surr: BFB	99.3	37.7-212		%Rec	1	7/7/2022 2:50:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/7/2022 2:50:00 AM
Toluene	ND	0.049		mg/Kg	1	7/7/2022 2:50:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/7/2022 2:50:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/7/2022 2:50:00 AM
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	7/7/2022 2:50:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	59		mg/Kg	20	7/8/2022 9:47:26 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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 4 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-28 16'

Project: Julie 2 Battery

Collection Date: 6/29/2022 9:20:00 AM

Lab ID: 2207061-005

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: ED
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	7/9/2022 12:58:44 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/9/2022 12:58:44 AM
Surr: DNOP	82.3	51.1-141		%Rec	1	7/9/2022 12:58:44 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/7/2022 3:10:00 AM
Surr: BFB	100	37.7-212		%Rec	1	7/7/2022 3:10:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/7/2022 3:10:00 AM
Toluene	ND	0.047		mg/Kg	1	7/7/2022 3:10:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	7/7/2022 3:10:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	7/7/2022 3:10:00 AM
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	7/7/2022 3:10:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	1200	60		mg/Kg	20	7/8/2022 9:59:47 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		

Page 5 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-29 10'

Project: Julie 2 Battery

Collection Date: 6/29/2022 9:25:00 AM

Lab ID: 2207061-006

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	7/9/2022 1:22:37 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/9/2022 1:22:37 AM
Surr: DNOP	75.7	51.1-141		%Rec	1	7/9/2022 1:22:37 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/7/2022 3:29:00 AM
Surr: BFB	99.4	37.7-212		%Rec	1	7/7/2022 3:29:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	7/7/2022 3:29:00 AM
Toluene	ND	0.046		mg/Kg	1	7/7/2022 3:29:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	7/7/2022 3:29:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	7/7/2022 3:29:00 AM
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	7/7/2022 3:29:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	95	60		mg/Kg	20	7/8/2022 10:12:07 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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 6 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-29 16'

Project: Julie 2 Battery

Collection Date: 6/29/2022 9:30:00 AM

Lab ID: 2207061-007

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	7/9/2022 1:46:27 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/9/2022 1:46:27 AM
Surr: DNOP	95.8	51.1-141		%Rec	1	7/9/2022 1:46:27 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2022 7:41:17 PM
Surr: BFB	97.5	37.7-212		%Rec	1	7/6/2022 7:41:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	0.027	0.024		mg/Kg	1	7/6/2022 7:41:17 PM
Toluene	ND	0.049		mg/Kg	1	7/6/2022 7:41:17 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2022 7:41:17 PM
Xylenes, Total	ND	0.098		mg/Kg	1	7/6/2022 7:41:17 PM
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	7/6/2022 7:41:17 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	7/8/2022 10:24:28 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		

Page 7 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-32 10'

Project: Julie 2 Battery

Collection Date: 6/29/2022 9:35:00 AM

Lab ID: 2207061-008

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	7/9/2022 2:10:20 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/9/2022 2:10:20 AM
Surr: DNOP	92.1	51.1-141		%Rec	1	7/9/2022 2:10:20 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2022 8:51:59 PM
Surr: BFB	96.2	37.7-212		%Rec	1	7/6/2022 8:51:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/6/2022 8:51:59 PM
Toluene	ND	0.049		mg/Kg	1	7/6/2022 8:51:59 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2022 8:51:59 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/6/2022 8:51:59 PM
Surr: 4-Bromofluorobenzene	96.0	70-130		%Rec	1	7/6/2022 8:51:59 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	5400	150		mg/Kg	50	7/11/2022 10:27:28 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		

Page 8 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-32 16'

Project: Julie 2 Battery

Collection Date: 6/29/2022 9:40:00 AM

Lab ID: 2207061-009

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	7/9/2022 2:34:17 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/9/2022 2:34:17 AM
Surr: DNOP	98.0	51.1-141		%Rec	1	7/9/2022 2:34:17 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2022 10:02:33 PM
Surr: BFB	99.1	37.7-212		%Rec	1	7/6/2022 10:02:33 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/6/2022 10:02:33 PM
Toluene	ND	0.049		mg/Kg	1	7/6/2022 10:02:33 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2022 10:02:33 PM
Xylenes, Total	ND	0.098		mg/Kg	1	7/6/2022 10:02:33 PM
Surr: 4-Bromofluorobenzene	96.8	70-130		%Rec	1	7/6/2022 10:02:33 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	220	60		mg/Kg	20	7/8/2022 11:13:51 PM

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

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

Page 9 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-02 20'

Project: Julie 2 Battery

Collection Date: 6/29/2022 9:45:00 AM

Lab ID: 2207061-010

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	7/9/2022 2:58:01 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/9/2022 2:58:01 AM
Surr: DNOP	116	51.1-141		%Rec	1	7/9/2022 2:58:01 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/6/2022 10:25:58 PM
Surr: BFB	95.1	37.7-212		%Rec	1	7/6/2022 10:25:58 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/6/2022 10:25:58 PM
Toluene	ND	0.048		mg/Kg	1	7/6/2022 10:25:58 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/6/2022 10:25:58 PM
Xylenes, Total	ND	0.097		mg/Kg	1	7/6/2022 10:25:58 PM
Surr: 4-Bromofluorobenzene	95.7	70-130		%Rec	1	7/6/2022 10:25:58 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	160	60		mg/Kg	20	7/8/2022 11:26:12 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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 10 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-01 2'

Project: Julie 2 Battery

Collection Date: 6/30/2022 9:00:00 AM

Lab ID: 2207061-011

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	7/9/2022 3:21:51 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/9/2022 3:21:51 AM
Surr: DNOP	74.2	51.1-141		%Rec	1	7/9/2022 3:21:51 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/6/2022 10:49:28 PM
Surr: BFB	96.9	37.7-212		%Rec	1	7/6/2022 10:49:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/6/2022 10:49:28 PM
Toluene	ND	0.050		mg/Kg	1	7/6/2022 10:49:28 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/6/2022 10:49:28 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/6/2022 10:49:28 PM
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	7/6/2022 10:49:28 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	7/8/2022 11:38:33 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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 11 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-08 2'

Project: Julie 2 Battery

Collection Date: 6/30/2022 9:05:00 AM

Lab ID: 2207061-012

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	7/9/2022 3:45:46 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/9/2022 3:45:46 AM
Surr: DNOP	107	51.1-141		%Rec	1	7/9/2022 3:45:46 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/6/2022 11:12:55 PM
Surr: BFB	97.3	37.7-212		%Rec	1	7/6/2022 11:12:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/6/2022 11:12:55 PM
Toluene	ND	0.050		mg/Kg	1	7/6/2022 11:12:55 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/6/2022 11:12:55 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/6/2022 11:12:55 PM
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	7/6/2022 11:12:55 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	7/8/2022 11:50:54 PM

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

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

Page 12 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-09 2'

Project: Julie 2 Battery

Collection Date: 6/30/2022 9:10:00 AM

Lab ID: 2207061-013

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	7/9/2022 4:09:34 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/9/2022 4:09:34 AM
Surr: DNOP	93.1	51.1-141		%Rec	1	7/9/2022 4:09:34 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/6/2022 11:36:22 PM
Surr: BFB	95.3	37.7-212		%Rec	1	7/6/2022 11:36:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/6/2022 11:36:22 PM
Toluene	ND	0.048		mg/Kg	1	7/6/2022 11:36:22 PM
Ethylbenzene	ND	0.048		mg/Kg	1	7/6/2022 11:36:22 PM
Xylenes, Total	ND	0.096		mg/Kg	1	7/6/2022 11:36:22 PM
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	7/6/2022 11:36:22 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	7/9/2022 12:03:15 AM

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

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

Page 13 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-20 2'

Project: Julie 2 Battery

Collection Date: 6/30/2022 9:20:00 AM

Lab ID: 2207061-015

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	7/9/2022 4:57:07 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/9/2022 4:57:07 AM
Surr: DNOP	97.4	51.1-141		%Rec	1	7/9/2022 4:57:07 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/6/2022 11:59:45 PM
Surr: BFB	94.9	37.7-212		%Rec	1	7/6/2022 11:59:45 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/6/2022 11:59:45 PM
Toluene	ND	0.049		mg/Kg	1	7/6/2022 11:59:45 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/6/2022 11:59:45 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/6/2022 11:59:45 PM
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	7/6/2022 11:59:45 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	3300	300		mg/Kg	100	7/11/2022 10:39:52 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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 14 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-20 4'

Project: Julie 2 Battery

Collection Date: 6/30/2022 9:25:00 AM

Lab ID: 2207061-016

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	7/9/2022 5:20:53 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/9/2022 5:20:53 AM
Surr: DNOP	124	51.1-141		%Rec	1	7/9/2022 5:20:53 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/7/2022 12:23:07 AM
Surr: BFB	96.4	37.7-212		%Rec	1	7/7/2022 12:23:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/7/2022 12:23:07 AM
Toluene	ND	0.049		mg/Kg	1	7/7/2022 12:23:07 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/7/2022 12:23:07 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/7/2022 12:23:07 AM
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	7/7/2022 12:23:07 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	4800	300		mg/Kg	100	7/11/2022 10:52:17 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		

Page 15 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-24 2'

Project: Julie 2 Battery

Collection Date: 6/30/2022 9:30:00 AM

Lab ID: 2207061-017

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	7/9/2022 5:44:40 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/9/2022 5:44:40 AM
Surr: DNOP	78.8	51.1-141		%Rec	1	7/9/2022 5:44:40 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/7/2022 12:46:32 AM
Surr: BFB	95.5	37.7-212		%Rec	1	7/7/2022 12:46:32 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/7/2022 12:46:32 AM
Toluene	ND	0.049		mg/Kg	1	7/7/2022 12:46:32 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/7/2022 12:46:32 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/7/2022 12:46:32 AM
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	7/7/2022 12:46:32 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	130	60		mg/Kg	20	7/9/2022 12:40:17 AM

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

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

Page 16 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-24 4'

Project: Julie 2 Battery

Collection Date: 6/30/2022 9:35:00 AM

Lab ID: 2207061-018

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	7/9/2022 6:08:29 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/9/2022 6:08:29 AM
Surr: DNOP	77.0	51.1-141		%Rec	1	7/9/2022 6:08:29 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/7/2022 1:33:35 AM
Surr: BFB	96.3	37.7-212		%Rec	1	7/7/2022 1:33:35 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/7/2022 1:33:35 AM
Toluene	ND	0.049		mg/Kg	1	7/7/2022 1:33:35 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/7/2022 1:33:35 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/7/2022 1:33:35 AM
Surr: 4-Bromofluorobenzene	97.6	70-130		%Rec	1	7/7/2022 1:33:35 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	370	60		mg/Kg	20	7/9/2022 12:52:38 AM

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

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

Page 17 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-34 2'

Project: Julie 2 Battery

Collection Date: 6/30/2022 9:40:00 AM

Lab ID: 2207061-019

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	7/9/2022 6:32:17 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/9/2022 6:32:17 AM
Surr: DNOP	101	51.1-141		%Rec	1	7/9/2022 6:32:17 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/7/2022 1:57:00 AM
Surr: BFB	92.0	37.7-212		%Rec	1	7/7/2022 1:57:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/7/2022 1:57:00 AM
Toluene	ND	0.050		mg/Kg	1	7/7/2022 1:57:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/7/2022 1:57:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/7/2022 1:57:00 AM
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	7/7/2022 1:57:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	7/9/2022 1:04:58 AM

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

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

Page 18 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-34 4'

Project: Julie 2 Battery

Collection Date: 6/30/2022 9:45:00 AM

Lab ID: 2207061-020

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	7/9/2022 6:56:04 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/9/2022 6:56:04 AM
Surr: DNOP	72.7	51.1-141		%Rec	1	7/9/2022 6:56:04 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/7/2022 2:20:26 AM
Surr: BFB	93.6	37.7-212		%Rec	1	7/7/2022 2:20:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/7/2022 2:20:26 AM
Toluene	ND	0.049		mg/Kg	1	7/7/2022 2:20:26 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/7/2022 2:20:26 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/7/2022 2:20:26 AM
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	7/7/2022 2:20:26 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	1100	61		mg/Kg	20	7/9/2022 1:42:02 AM

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

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

Page 19 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-35 2'

Project: Julie 2 Battery

Collection Date: 6/30/2022 9:50:00 AM

Lab ID: 2207061-021

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 3:44:08 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/11/2022 3:44:08 PM
Surr: DNOP	93.7	51.1-141		%Rec	1	7/11/2022 3:44:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/7/2022 2:43:49 AM
Surr: BFB	96.7	37.7-212		%Rec	1	7/7/2022 2:43:49 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/7/2022 2:43:49 AM
Toluene	ND	0.049		mg/Kg	1	7/7/2022 2:43:49 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/7/2022 2:43:49 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/7/2022 2:43:49 AM
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	7/7/2022 2:43:49 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/10/2022 11:02:13 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		

Page 20 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-35 4'

Project: Julie 2 Battery

Collection Date: 6/30/2022 9:55:00 AM

Lab ID: 2207061-022

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 4:28:30 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/11/2022 4:28:30 PM
Surr: DNOP	79.3	51.1-141		%Rec	1	7/11/2022 4:28:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/7/2022 3:07:19 AM
Surr: BFB	94.0	37.7-212		%Rec	1	7/7/2022 3:07:19 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/7/2022 3:07:19 AM
Toluene	ND	0.050		mg/Kg	1	7/7/2022 3:07:19 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/7/2022 3:07:19 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/7/2022 3:07:19 AM
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	7/7/2022 3:07:19 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	64	60		mg/Kg	20	7/10/2022 11:14:37 AM

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

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

Page 21 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-36 2'

Project: Julie 2 Battery

Collection Date: 6/30/2022 10:00:00 AM

Lab ID: 2207061-023

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 4:42:45 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/11/2022 4:42:45 PM
Surr: DNOP	75.1	51.1-141		%Rec	1	7/11/2022 4:42:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/7/2022 3:30:53 AM
Surr: BFB	97.5	37.7-212		%Rec	1	7/7/2022 3:30:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/7/2022 3:30:53 AM
Toluene	ND	0.050		mg/Kg	1	7/7/2022 3:30:53 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/7/2022 3:30:53 AM
Xylenes, Total	ND	0.099		mg/Kg	1	7/7/2022 3:30:53 AM
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	7/7/2022 3:30:53 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	7/10/2022 11:51:50 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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 22 of 30

Analytical Report

Lab Order 2207061

Date Reported: 7/14/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-36 4'

Project: Julie 2 Battery

Collection Date: 6/30/2022 10:05:00 AM

Lab ID: 2207061-024

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 4:57:09 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/11/2022 4:57:09 PM
Surr: DNOP	69.7	51.1-141		%Rec	1	7/11/2022 4:57:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/7/2022 3:54:21 AM
Surr: BFB	94.4	37.7-212		%Rec	1	7/7/2022 3:54:21 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	7/7/2022 3:54:21 AM
Toluene	ND	0.049		mg/Kg	1	7/7/2022 3:54:21 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/7/2022 3:54:21 AM
Xylenes, Total	ND	0.098		mg/Kg	1	7/7/2022 3:54:21 AM
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	7/7/2022 3:54:21 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	310	60		mg/Kg	20	7/10/2022 12:04:14 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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 23 of 30

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2207061

14-Jul-22

Client: Vertex Resources Services, Inc.**Project:** Julie 2 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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix interference		

Page 24 of 30

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

WO#: 2207061

14-Jul-22

Client: Vertex Resources Services, Inc.**Project:** Julie 2 Battery

Sample ID: MB-68586	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68586	RunNo: 89260								
Prep Date: 7/6/2022	Analysis Date: 7/8/2022	SeqNo: 3178997 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	13		10.00		128	51.1	141			

Sample ID: LCS-68586	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68586	RunNo: 89260								
Prep Date: 7/6/2022	Analysis Date: 7/8/2022	SeqNo: 3178998 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	15	50.00	0	118	64.4	127			
Surr: DNOP	6.4		5.000		128	51.1	141			

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: 2207061-021AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WES22-35 2'	Batch ID: 68594	RunNo: 89368								
Prep Date: 7/6/2022	Analysis Date: 7/11/2022	SeqNo: 3180211 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	14	47.76	0	89.2	36.1	154			
Surr: DNOP	3.7		4.776		76.6	51.1	141			

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#: 2207061

14-Jul-22

Client: Vertex Resources Services, Inc.**Project:** Julie 2 Battery

Sample ID: 2207061-021AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: WES22-35 2'	Batch ID: 68594	RunNo: 89368								
Prep Date: 7/6/2022	Analysis Date: 7/11/2022	SeqNo: 3180212	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	15	49.07	0	74.9	36.1	154	14.8	33.9	
Surr: DNOP	2.7		4.907		55.0	51.1	141	0	0	

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.	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#: 2207061

14-Jul-22

Client: Vertex Resources Services, Inc.**Project:** Julie 2 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: 2207061-007ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WES22-29 16'	Batch ID: 68555		RunNo: 89271							
Prep Date: 7/5/2022	Analysis Date: 7/6/2022		SeqNo: 3174487		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	24.90	0	112	70	130			
Surr: BFB	2200		996.0		221	37.7	212			S

Sample ID: 2207061-007amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: WES22-29 16'	Batch ID: 68555		RunNo: 89271							
Prep Date: 7/5/2022	Analysis Date: 7/6/2022		SeqNo: 3174488		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.8	23.85	0	121	70	130	3.21	20	
Surr: BFB	2100		954.2		223	37.7	212	0	0	S

Sample ID: lcs-68550	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 68550		RunNo: 89287							
Prep Date: 7/5/2022	Analysis Date: 7/6/2022		SeqNo: 3175349		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	102	72.3	137			
Surr: BFB	2100		1000		210	37.7	212			

Sample ID: mb-68550	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 68550		RunNo: 89287							
Prep Date: 7/5/2022	Analysis Date: 7/6/2022		SeqNo: 3175350		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2207061
14-Jul-22

Client: Vertex Resources Services, Inc.
Project: Julie 2 Battery

Sample ID: mb-68550	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 68550	RunNo: 89287								
Prep Date: 7/5/2022	Analysis Date: 7/6/2022	SeqNo: 3175350		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		88.1	37.7	212			

- Qualifiers:
- * Value exceeds Maximum Contaminant Level.
 - D Sample Diluted Due to Matrix
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Reporting Limit
 - PQL Practical 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#: 2207061

14-Jul-22

Client: Vertex Resources Services, Inc.**Project:** Julie 2 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: 2207061-008ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: WES22-32 10'	Batch ID: 68555	RunNo: 89271								
Prep Date: 7/5/2022	Analysis Date: 7/6/2022	SeqNo: 3174527 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.024	0.9775	0.01502	74.4	68.8	120			
Toluene	0.77	0.049	0.9775	0	78.4	73.6	124			
Ethylbenzene	0.76	0.049	0.9775	0	78.1	72.7	129			
Xylenes, Total	2.3	0.098	2.933	0	78.1	75.7	126			
Surr: 4-Bromofluorobenzene	0.97		0.9775		99.0	70	130			

Sample ID: 2207061-008amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: WES22-32 10'	Batch ID: 68555	RunNo: 89271								
Prep Date: 7/5/2022	Analysis Date: 7/6/2022	SeqNo: 3174528 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9823	0.01502	108	68.8	120	36.5	20	R
Toluene	1.1	0.049	0.9823	0	115	73.6	124	38.0	20	R
Ethylbenzene	1.1	0.049	0.9823	0	117	72.7	129	40.0	20	R
Xylenes, Total	3.5	0.098	2.947	0	117	75.7	126	40.6	20	R
Surr: 4-Bromofluorobenzene	0.98		0.9823		100	70	130	0	0	

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#: 2207061

14-Jul-22

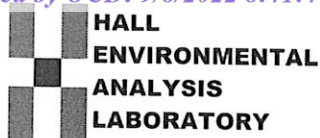
Client: Vertex Resources Services, Inc.**Project:** Julie 2 Battery

Sample ID: ics-68550	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 68550			RunNo: 89287						
Prep Date: 7/5/2022	Analysis Date: 7/6/2022			SeqNo: 3175424		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	91.8	80	120			
Toluene	0.93	0.050	1.000	0	93.2	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.4	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.1	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.2	70	130			

Sample ID: mb-68550	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 68550			RunNo: 89287						
Prep Date: 7/5/2022	Analysis Date: 7/6/2022			SeqNo: 3175425		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	0.83		1.000		82.6	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: Vertex Resources
Services, Inc.

Work Order Number: 2207061

RcptNo: 1

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

Completed By: Cheyenne Cason 7/5/2022 7:23:18 AM

Reviewed By: JSC 7/5/22

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: JSC 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: _____

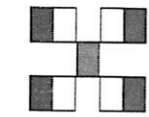
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Not Present			
2	4.5	Good	Not Present			

Chain-of-Custody Record		Turn-Around Time: 5 - Day	
Client: EOG / Vertex	<input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush		
Mailing Address: ON FILE	Project Name: Julie #2 Battery		
Phone #:	Project #: 22E-00716-011		
email or Fax#:	Project Manager: Morning Perdin		
QA/QC Package:	<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		
Accreditation:	<input type="checkbox"/> Az Compliance <input type="checkbox"/> NELAC <input type="checkbox"/> Other		
<input type="checkbox"/> EDD (Type)	Sampler: Chance Dixon On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No # of Coolers: 2 46 - 0.1 = 4.5		



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com


4901 Hawkins NE - Albuquerque, NM 87109


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

Analysis Request

email or Fax#:		QA/QC Package:		Level 4 (Full Validation)		Project Manager:	
Date		Time		Matrix		Sample Name	
6/29	9:00	5017	4ES22-15	5'	402	ICE	BTX / MTBE / TMB's (8021)
9:05			4ES22-15	10'			TPH-8015D(GRO / DRO / MRO)
9:10			4ES22-15	15'			8081 Pesticides/8082 PCB's
9:15			4ES22-28	10'			EDB (Method 504.1)
9:20			4ES22-28	16'			PAHs by 8310 or 8270SIMS
9:25			4ES22-29	10'			RCRA 8 Metals
9:30			4ES22-29	16'			Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄
9:35			4ES22-32	10'			8260 (VOA)
9:40			4ES22-32	16'			8270 (Semi-VOA)
9:45			4ES22-02	20'			Total Coliform (Present/Absent)

Remarks: CC: Charles Dixon
Direct Bill EUG

Received by:	Via:	Date	Time
		07/1/22	00:00

Received by:	Via:	Date	Time
			

Received by:	Via:	Date	Time
		7/2/22	0935

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.

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 18, 2022

Monica Peppin

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Julie 2 Battery

OrderNo.: 2207186

Dear Monica Peppin:

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

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2207186

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-01 4'

Project: Julie 2 Battery

Collection Date: 7/1/2022 10:00:00 AM

Lab ID: 2207186-001

Matrix: SOIL

Received Date: 7/7/2022 7:45:00 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	7/8/2022 7:12:48 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/8/2022 7:12:48 PM
Surr: DNOP	87.0	51.1-141		%Rec	1	7/8/2022 7:12:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/8/2022 10:48:00 PM
Surr: BFB	90.4	37.7-212		%Rec	1	7/8/2022 10:48:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/8/2022 10:48:00 PM
Toluene	ND	0.049		mg/Kg	1	7/8/2022 10:48:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/8/2022 10:48:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	7/8/2022 10:48:00 PM
Surr: 4-Bromofluorobenzene	82.9	70-130		%Rec	1	7/8/2022 10:48:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	340	60		mg/Kg	20	7/13/2022 2:56:48 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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 1 of 11

Analytical Report

Lab Order 2207186

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-03 4'

Project: Julie 2 Battery

Collection Date: 7/1/2022 10:05:00 AM

Lab ID: 2207186-002

Matrix: SOIL

Received Date: 7/7/2022 7:45:00 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	7/8/2022 7:27:04 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2022 7:27:04 PM
Surr: DNOP	81.0	51.1-141		%Rec	1	7/8/2022 7:27:04 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/8/2022 11:08:00 PM
Surr: BFB	87.2	37.7-212		%Rec	1	7/8/2022 11:08:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/8/2022 11:08:00 PM
Toluene	ND	0.049		mg/Kg	1	7/8/2022 11:08:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/8/2022 11:08:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	7/8/2022 11:08:00 PM
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	7/8/2022 11:08:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	340	60		mg/Kg	20	7/13/2022 3:34:01 PM

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

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

Page 2 of 11

Analytical Report

Lab Order 2207186

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-04 6'

Project: Julie 2 Battery

Collection Date: 7/1/2022 10:10:00 AM

Lab ID: 2207186-003

Matrix: SOIL

Received Date: 7/7/2022 7:45:00 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	7/8/2022 7:41:26 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/8/2022 7:41:26 PM
Surr: DNOP	86.1	51.1-141		%Rec	1	7/8/2022 7:41:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/8/2022 11:27:00 PM
Surr: BFB	92.3	37.7-212		%Rec	1	7/8/2022 11:27:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/8/2022 11:27:00 PM
Toluene	ND	0.049		mg/Kg	1	7/8/2022 11:27:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	7/8/2022 11:27:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	7/8/2022 11:27:00 PM
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	7/8/2022 11:27:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	74	60		mg/Kg	20	7/13/2022 3:46:25 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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 3 of 11

Analytical Report

Lab Order 2207186

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-05 6'

Project: Julie 2 Battery

Collection Date: 7/1/2022 10:15:00 AM

Lab ID: 2207186-004

Matrix: SOIL

Received Date: 7/7/2022 7:45:00 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	7/8/2022 7:55:41 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	7/8/2022 7:55:41 PM
Surr: DNOP	83.9	51.1-141		%Rec	1	7/8/2022 7:55:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/9/2022 12:07:00 AM
Surr: BFB	89.0	37.7-212		%Rec	1	7/9/2022 12:07:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/9/2022 12:07:00 AM
Toluene	ND	0.048		mg/Kg	1	7/9/2022 12:07:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/9/2022 12:07:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/9/2022 12:07:00 AM
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	7/9/2022 12:07:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	84	60		mg/Kg	20	7/13/2022 4:23:39 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		

Page 4 of 11

Analytical Report

Lab Order 2207186

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-06 6'

Project: Julie 2 Battery

Collection Date: 7/1/2022 10:20:00 AM

Lab ID: 2207186-005

Matrix: SOIL

Received Date: 7/7/2022 7:45:00 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	7/8/2022 8:09:43 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	7/8/2022 8:09:43 PM
Surr: DNOP	101	51.1-141		%Rec	1	7/8/2022 8:09:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/9/2022 12:27:00 AM
Surr: BFB	89.8	37.7-212		%Rec	1	7/9/2022 12:27:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	7/9/2022 12:27:00 AM
Toluene	ND	0.050		mg/Kg	1	7/9/2022 12:27:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/9/2022 12:27:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/9/2022 12:27:00 AM
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	7/9/2022 12:27:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	7/13/2022 4:36:04 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 2207186

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-07 6'

Project: Julie 2 Battery

Collection Date: 7/1/2022 10:25:00 AM

Lab ID: 2207186-006

Matrix: SOIL

Received Date: 7/7/2022 7:45:00 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	7/8/2022 8:23:59 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/8/2022 8:23:59 PM
Surr: DNOP	75.9	51.1-141		%Rec	1	7/8/2022 8:23:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/9/2022 12:47:00 AM
Surr: BFB	87.5	37.7-212		%Rec	1	7/9/2022 12:47:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/9/2022 12:47:00 AM
Toluene	ND	0.049		mg/Kg	1	7/9/2022 12:47:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	7/9/2022 12:47:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	7/9/2022 12:47:00 AM
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	7/9/2022 12:47:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	7/13/2022 5:38:05 PM

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

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

Page 6 of 11

Analytical Report

Lab Order 2207186

Date Reported: 7/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-08 6'

Project: Julie 2 Battery

Collection Date: 7/1/2022 10:30:00 AM

Lab ID: 2207186-007

Matrix: SOIL

Received Date: 7/7/2022 7:45:00 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	7/8/2022 8:38:02 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/8/2022 8:38:02 PM
Surr: DNOP	95.9	51.1-141		%Rec	1	7/8/2022 8:38:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/9/2022 1:06:00 AM
Surr: BFB	89.4	37.7-212		%Rec	1	7/9/2022 1:06:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	7/9/2022 1:06:00 AM
Toluene	ND	0.048		mg/Kg	1	7/9/2022 1:06:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	7/9/2022 1:06:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	7/9/2022 1:06:00 AM
Surr: 4-Bromofluorobenzene	82.5	70-130		%Rec	1	7/9/2022 1:06:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	7/13/2022 5:50:29 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	Estimated value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix interference		

Page 7 of 11

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

WO#: 2207186

18-Jul-22

Client: Vertex Resources Services, Inc.**Project:** Julie 2 Battery

Sample ID: MB-68732	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68732	RunNo: 89473								
Prep Date: 7/12/2022	Analysis Date: 7/13/2022	SeqNo: 3183568 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68732	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68732	RunNo: 89473								
Prep Date: 7/12/2022	Analysis Date: 7/13/2022	SeqNo: 3183569 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.6	90	110			

Sample ID: MB-68737	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 68737	RunNo: 89473								
Prep Date: 7/12/2022	Analysis Date: 7/13/2022	SeqNo: 3183598 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-68737	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 68737	RunNo: 89473								
Prep Date: 7/12/2022	Analysis Date: 7/13/2022	SeqNo: 3183599 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.0	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Estimated value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical 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#: 2207186

18-Jul-22

Client: Vertex Resources Services, Inc.**Project:** Julie 2 Battery

Sample ID: MB-68628	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 68628	RunNo: 89385								
Prep Date: 7/7/2022	Analysis Date: 7/8/2022	SeqNo: 3179983 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	9.8		10.00		98.3	51.1	141			

Sample ID: LCS-68628	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 68628	RunNo: 89385								
Prep Date: 7/7/2022	Analysis Date: 7/8/2022	SeqNo: 3179985 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	89.9	64.4	127			
Surr: DNOP	4.8		5.000		96.4	51.1	141			

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#: 2207186
18-Jul-22

Client: Vertex Resources Services, Inc.
Project: Julie 2 Battery

Sample ID: lcs-68623	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 68623				RunNo: 89348					
Prep Date: 7/7/2022	Analysis Date: 7/8/2022				SeqNo: 3178144	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	99.0	72.3	137			
Surr: BFB	2000		1000		199	37.7	212			

Sample ID: mb-68623	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 68623				RunNo: 89348					
Prep Date: 7/7/2022	Analysis Date: 7/8/2022				SeqNo: 3178145	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	910		1000		91.1	37.7	212			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical 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#: 2207186

18-Jul-22

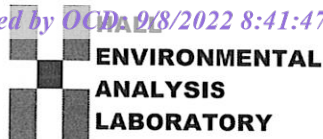
Client: Vertex Resources Services, Inc.**Project:** Julie 2 Battery

Sample ID: ics-68623	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 68623		RunNo: 89348							
Prep Date: 7/7/2022	Analysis Date: 7/8/2022		SeqNo: 3178205		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	87.0	80	120			
Toluene	0.88	0.050	1.000	0	88.3	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.0	80	120			
Xylenes, Total	2.6	0.10	3.000	0	86.9	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.4	70	130			

Sample ID: mb-68623	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 68623		RunNo: 89348							
Prep Date: 7/7/2022	Analysis Date: 7/8/2022		SeqNo: 3178206		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	0.87		1.000		86.7	70	130			

Qualifiers:

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



Sample Log-In Check List

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

Work Order Number: **2207186**

RcptNo: 1

Received By: **Juan Rojas**

7/7/2022 7:45:00 AM

Juan Rojas

Completed By: **Cheyenne Cason**

7/7/2022 7:48:55 AM

Cheyenne Cason

Reviewed By: *7-7-22*

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: *7/7/22*

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Not Present			

Chain-of-Custody Record

Client:

EOG/Verder

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: 5- Day

☒ Standard☒ Rush

Project Name:

Julie #2 Battery

Project #:

ZZE-00716-011

Project Manager:

MORGA DEPPIN

Sampler:

CD

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 0.4-0.1-0.3 (°C)

Date

Time

Matrix

Sample Name

Container Type and #

Preservative Type

HEAL No.

2207186

001

002

003

004

005

006

007

008

009

010

011

012

013

014

015

016

017

018

019

020

021

022

023

024

025

026

027

028

029

030

031

032

033

034

035

036

037

038

039

040

041

042

043

044

045

046

047

048

049

050

051

052

053

054

055

056

057

058

059

060

061

062

063

064

065

066

067

068

069

070

071

072

073

074

075

076

077

078

079

080

081

082

083

084

085

086

087

088

089

090

091

092

093

094

095

096

097

098

099

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

324

325

326

327

328

329

330

331

332

333

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

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

CONDITIONS

Action 141489

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 141489
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

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