



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 4<sup>th</sup> Street  
Artesia, New Mexico 88210

**New Mexico Oil Conservation Division - District 2 - Eddy**

811 South 1<sup>st</sup> 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

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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.

<b>Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS</b>	<b>Constituent</b>	<b>Limit</b>
< 50 feet	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

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

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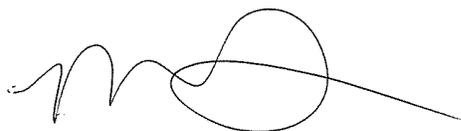
footage and sample points used for final confirmatory sampling. Field screening and laboratory results for confirmation sampling are in Table 2, Attachment 3.

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  
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## 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](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

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## 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, 2011

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

**RECEIVED**

**Release Notification and Corrective Action**

*NAB1714648527*

<b>OPERATOR</b>		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company EOG Y Resources, Inc.	OGRID Number 25575	Contact Robert Asher	New forms can be found in the New Mexico State Website in forms: <a href="http://www.emnrd.state.nm.us/OCD/forms.html">http://www.emnrd.state.nm.us/OCD/forms.html</a>
Address 104 S. 4 <sup>th</sup> Street	Telephone No. 575-748-1471	Facility Name Julie #2 Battery	
Facility Type Battery	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>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Robert Asher	Signed By: <i>Michelle B...</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>2RP- See attached</i>	Attached <input type="checkbox"/>
Date: May 23, 2017	Phone: 575-748-4217	

\* Attach Additional Sheets If Necessary

*2RP-4225*

State of New Mexico  
Oil Conservation Division

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

**NM OIL CONSERVATION**

ARTESIA DISTRICT

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

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

*NAB 1730 130254*

Name of Company EOG Y Resources, Inc.	<i>25575</i>	Contact Chase Settle
Address 104 S. 4 <sup>th</sup> 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
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**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 32.67018 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 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>Chase Settle</i>	<b>OIL CONSERVATION DIVISION</b>	
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: <i>See attached</i>	Attached <input checked="" type="checkbox"/> <i>2RP-4531</i>
Date: December 19, 2017	Phone: 575-748-4171	

\* Attach Additional Sheets If Necessary

*12/22/17 AB*

State of New Mexico  
Oil Conservation Division

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

Document Path: \\vix-s-01.corp.internal\share\p04 - 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)
- [Light Blue Box] 6' Excavation (~922 sq. ft.)
- [Light Orange Box] 20' Excavation (~303 sq. ft.)
- [Dashed Line] Lease Boundary
- [Light Orange Box] 4' Excavation (~973 sq. ft.)



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

**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

Table 2. Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater <50 feet bgs

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID) (ppm)	Extractable Organic Compounds (PetroFlag) (ppm)	Chloride Concentration (ppm)	Volatile		Extractable					Chloride Concentration (mg/kg)
						Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	
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:	<u>EOG Resources Inc.</u>	Inspection Date:	<u>6/7/2022</u>
Site Location Name:	<u>Julie #2 Battery</u>	Report Run Date:	<u>6/7/2022 10:12 PM</u>
Client Contact Name:	<u>Chase Settle</u>	API #:	<u></u>
Client Contact Phone #:	<u>575-703-6537</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

### Summary of Times

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

### 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



Descriptive Photo - 1  
Viewing Direction: East  
Desc: Excavation area  
Created: 6/7/2022 9:26:33 AM  
Lat:32.670697, Long:-104.508619

Excavation area

Viewing Direction: Southeast



Descriptive Photo - 2  
Viewing Direction: Southeast  
Desc: Excavation area  
Created: 6/7/2022 9:27:28 AM  
Lat:32.670626, Long:-104.508626

Excavation area

Viewing Direction: West



Descriptive Photo - 3  
Viewing Direction: West  
Desc: Current excavation  
Created: 6/7/2022 4:11:37 PM  
Lat:32.670697, Long:-104.508619

Current excavation

Viewing Direction: Northeast



Descriptive Photo - 4  
Viewing Direction: Northeast  
Desc: Current excavation  
Created: 6/7/2022 1:12:06 PM  
Lat:32.670726, Long:-104.508361

Current excavation

# Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Chance Dixon

**Signature:**

A handwritten signature in black ink, appearing to be 'CD' with a flourish.

Signature



# Daily Site Visit Report

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

## Summary of Times

Arrived at Site	<u>7/20/2022 8:00 AM</u>
Departed Site	<u>7/20/2022 3:45 PM</u>

## Field Notes

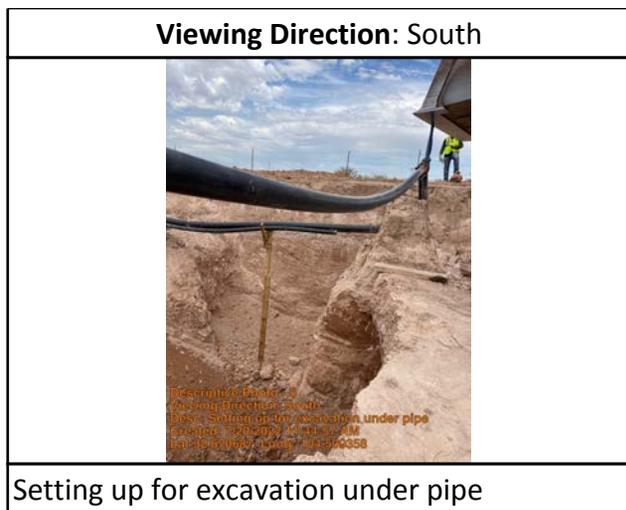
- 8:22** Water truck spraying road and loading area
- 8:24** Safety meeting complete, running line finder in sampling areas
- 8:33** Loader arrived on site with more skids
- 8:57** Standard coming up with a plan for how to support the produced water line
- 10:20** "Clean" sample at WES22-37 came back 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





# Daily Site Visit Report

## Site Photos

Viewing Direction: South



Descriptive Photo - 1  
Viewing Direction: South  
Desc: Excavation site morning  
Created: 7/20/2022 8:31:11 AM  
Lat:32.670772, Long:-104.506509

Excavation this morning

Viewing Direction: East



Descriptive Photo - 2  
Viewing Direction: East  
Desc: 20' A0 excavation, will need some more excavation and stabilization before we  
Created: 7/20/2022 8:33:55 AM  
Lat:32.670772, Long:-104.506509

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

Viewing Direction: South



Descriptive Photo - 9  
Viewing Direction: South  
Desc: Clean wall  
Created: 7/20/2022 3:33:11 PM  
Lat:32.670772, Long:-104.506510

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](mailto: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](mailto:tina_huerta@eogresources.com)*



**Artesia Division**

## 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@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 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](mailto: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](mailto:Tina_Huerta@eogresources.com)>  
**Sent:** Monday, August 22, 2022 12:50 PM  
**To:** Alan & Cheryl <[ahowell@pvt.n.net](mailto:ahowell@pvt.n.net)>; Austin Weyant <[austin@atkinseng.com](mailto:austin@atkinseng.com)>; Jennifer Nobui <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)>; Jocelyn Harimon <[Jocelyn.Harimon@state.nm.us](mailto:Jocelyn.Harimon@state.nm.us)>; Mike Bratcher <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Robert Hamlet <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>  
**Cc:** Andrea Felix <[Andrea\\_Felix@eogresources.com](mailto:Andrea_Felix@eogresources.com)>; Katie Jamison <[Katie\\_Jamison@eogresources.com](mailto:Katie_Jamison@eogresources.com)>; Michael Yemm <[Michael\\_Yemm@eogresources.com](mailto:Michael_Yemm@eogresources.com)>; BODEE EUDY <[BODEE\\_EUDY@eogresources.com](mailto: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](mailto: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](mailto: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](mailto: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](http://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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	360	60		mg/Kg	20	7/5/2022 6:24:54 PM	68541
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	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 **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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	430	60		mg/Kg	20	7/5/2022 7:02:07 PM	68541
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	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 **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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	290	60		mg/Kg	20	7/5/2022 7:14:31 PM	68541
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	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 **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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	360	60		mg/Kg	20	7/5/2022 7:51:45 PM	68541
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	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 **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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	150	60		mg/Kg	20	7/5/2022 8:04:09 PM	68541
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	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 **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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>JMT</b>
Chloride	210	59		mg/Kg	20	7/5/2022 5:54:56 PM	68553
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

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

Sample ID: <b>LCS-68553</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68553</b>	RunNo: <b>89243</b>								
Prep Date: <b>7/5/2022</b>	Analysis Date: <b>7/5/2022</b>	SeqNo: <b>3172488</b>	Units: <b>mg/Kg</b>							
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: <b>MB-68541</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68541</b>	RunNo: <b>89250</b>								
Prep Date: <b>7/5/2022</b>	Analysis Date: <b>7/5/2022</b>	SeqNo: <b>3173124</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-68541</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68541</b>	RunNo: <b>89250</b>								
Prep Date: <b>7/5/2022</b>	Analysis Date: <b>7/5/2022</b>	SeqNo: <b>3173125</b>	Units: <b>mg/Kg</b>							
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.
- 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#: 2206E65

13-Jul-22

**Client:** EOG  
**Project:** Julie 2

Sample ID: <b>LCS-68511</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68511</b>	RunNo: <b>89240</b>								
Prep Date: <b>7/1/2022</b>	Analysis Date: <b>7/5/2022</b>	SeqNo: <b>3172709</b>	Units: <b>mg/Kg</b>							
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: <b>MB-68511</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68511</b>	RunNo: <b>89240</b>								
Prep Date: <b>7/1/2022</b>	Analysis Date: <b>7/5/2022</b>	SeqNo: <b>3172711</b>	Units: <b>mg/Kg</b>							
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: <b>LCS-68543</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68543</b>	RunNo: <b>89259</b>								
Prep Date: <b>7/5/2022</b>	Analysis Date: <b>7/6/2022</b>	SeqNo: <b>3173754</b>	Units: <b>mg/Kg</b>							
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: <b>MB-68543</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68543</b>	RunNo: <b>89259</b>								
Prep Date: <b>7/5/2022</b>	Analysis Date: <b>7/6/2022</b>	SeqNo: <b>3173755</b>	Units: <b>mg/Kg</b>							
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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2206E65

13-Jul-22

**Client:** EOG  
**Project:** Julie 2

Sample ID: <b>ics-68435</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>68435</b>		RunNo: <b>89164</b>							
Prep Date: <b>6/29/2022</b>	Analysis Date: <b>6/30/2022</b>		SeqNo: <b>3169081</b>		Units: <b>mg/Kg</b>					
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: <b>mb-68435</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>68435</b>		RunNo: <b>89164</b>							
Prep Date: <b>6/29/2022</b>	Analysis Date: <b>6/30/2022</b>		SeqNo: <b>3169083</b>		Units: <b>mg/Kg</b>					
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: <b>mb-68445</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>68445</b>		RunNo: <b>89209</b>							
Prep Date: <b>6/29/2022</b>	Analysis Date: <b>7/1/2022</b>		SeqNo: <b>3171002</b>		Units: <b>mg/Kg</b>					
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: <b>ics-68445</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>68445</b>		RunNo: <b>89209</b>							
Prep Date: <b>6/29/2022</b>	Analysis Date: <b>7/1/2022</b>		SeqNo: <b>3171003</b>		Units: <b>mg/Kg</b>					
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.
- 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#: 2206E65

13-Jul-22

**Client:** EOG  
**Project:** Julie 2

Sample ID: <b>ics-68435</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>68435</b>		RunNo: <b>89164</b>							
Prep Date: <b>6/29/2022</b>	Analysis Date: <b>6/30/2022</b>		SeqNo: <b>3169125</b>		Units: <b>mg/Kg</b>					
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			

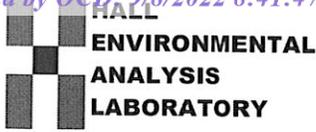
Sample ID: <b>mb-68435</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>68435</b>		RunNo: <b>89164</b>							
Prep Date: <b>6/29/2022</b>	Analysis Date: <b>6/30/2022</b>		SeqNo: <b>3169126</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	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: <b>mb-68445</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>68445</b>		RunNo: <b>89209</b>							
Prep Date: <b>6/29/2022</b>	Analysis Date: <b>7/1/2022</b>		SeqNo: <b>3171086</b>		Units: <b>mg/Kg</b>					
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: <b>LCS-68445</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>68445</b>		RunNo: <b>89209</b>							
Prep Date: <b>6/29/2022</b>	Analysis Date: <b>7/1/2022</b>		SeqNo: <b>3171087</b>		Units: <b>mg/Kg</b>					
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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: EOG

Work Order Number: 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: [Handwritten signature and date 6-28-22]

[Handwritten initials]

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: Adjusted? Checked by: JN 6/28/22

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 5.5, Good, [ ], [ ], [ ]

# Chain-of-Custody Record

Client: EOG / KURTIX  
 Mailing Address: OD FIRE  
 Phone #: \_\_\_\_\_  
 email or Fax#: \_\_\_\_\_  
 QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  Az Compliance  
 NELAC  Other  
 EDD (Type) \_\_\_\_\_

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
8/27	10:00	SOIL	WES22-05 2'	4 OZ	ICE	2206 E05
	10:05		WES22-05 4'			-001
	10:10		WES22-19 2'			-002
	10:15		WES22-19 4'			-003
	10:20		WES22-25 4'			-004
	10:25		WES22-25 2'			-005
			WES22-25 4'			-006

Turn-Around Time: 5 - Day  
 Standard  Rush  
 Project Name: JULIE #2  
 Project #: ZZE-00716-011  
 Project Manager: MORICA PEPPIÑ  
 Sampler: CD  
 On Ice:  Yes  No  
 # of Coolers: 1  
 Cooler Temp (including CF): 5.6 - 0.1 = 5.5 (°C)

Container Type and #	Preservative Type	HEAL No.
4 OZ	ICE	2206 E05
		-001
		-002
		-003
		-004
		-005
		-006



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**  
 www.hallenvironmental.com  
 4901 Hawkins NE - Albuquerque, NM 87109  
 Tel. 505-345-3975 Fax 505-345-4107

**Analysis Request**

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

Received by: [Signature] Date: 9/28/22 1400  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Received by: [Signature] Date: 6/28/22 8:00  
 Relinquished by: [Signature] Date: \_\_\_\_\_

Remarks: CC: Chance Dixon  
Direct Bill EOG

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



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://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](http://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 **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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
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.

<b>Qualifiers:</b>	* 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 **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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
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.

<b>Qualifiers:</b>	* 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 **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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
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.

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

Sample ID: <b>LCS-69006</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>69006</b>	RunNo: <b>89746</b>								
Prep Date: <b>7/22/2022</b>	Analysis Date: <b>7/22/2022</b>	SeqNo: <b>3195742</b>	Units: <b>mg/Kg</b>							
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.
- 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#: 2207B16

27-Jul-22

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

**Project:** Julie 2 Battery

Sample ID: <b>MB-68995</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68995</b>	RunNo: <b>89755</b>								
Prep Date: <b>7/22/2022</b>	Analysis Date: <b>7/25/2022</b>	SeqNo: <b>3197420</b>	Units: <b>mg/Kg</b>							
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: <b>LCS-68995</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68995</b>	RunNo: <b>89755</b>								
Prep Date: <b>7/22/2022</b>	Analysis Date: <b>7/25/2022</b>	SeqNo: <b>3197422</b>	Units: <b>mg/Kg</b>							
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: <b>2207B16-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>WES22-39 0-2'</b>	Batch ID: <b>68995</b>	RunNo: <b>89755</b>								
Prep Date: <b>7/22/2022</b>	Analysis Date: <b>7/25/2022</b>	SeqNo: <b>3197450</b>	Units: <b>mg/Kg</b>							
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: <b>2207B16-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>WES22-39 0-2'</b>	Batch ID: <b>68995</b>	RunNo: <b>89755</b>								
Prep Date: <b>7/22/2022</b>	Analysis Date: <b>7/25/2022</b>	SeqNo: <b>3197452</b>	Units: <b>mg/Kg</b>							
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.
- 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#: 2207B16

27-Jul-22

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

**Project:** Julie 2 Battery

Sample ID: <b>mb-68990</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68990</b>	RunNo: <b>89759</b>								
Prep Date: <b>7/22/2022</b>	Analysis Date: <b>7/25/2022</b>	SeqNo: <b>3196558</b>	Units: <b>mg/Kg</b>							
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: <b>lcs-68990</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68990</b>	RunNo: <b>89759</b>								
Prep Date: <b>7/22/2022</b>	Analysis Date: <b>7/25/2022</b>	SeqNo: <b>3196559</b>	Units: <b>mg/Kg</b>							
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: <b>2207b16-001ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>WES22-39 0-2'</b>	Batch ID: <b>68990</b>	RunNo: <b>89759</b>								
Prep Date: <b>7/22/2022</b>	Analysis Date: <b>7/25/2022</b>	SeqNo: <b>3196561</b>	Units: <b>mg/Kg</b>							
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: <b>2207b16-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>WES22-39 0-2'</b>	Batch ID: <b>68990</b>	RunNo: <b>89759</b>								
Prep Date: <b>7/22/2022</b>	Analysis Date: <b>7/25/2022</b>	SeqNo: <b>3196562</b>	Units: <b>mg/Kg</b>							
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.
- 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#: 2207B16

27-Jul-22

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

**Project:** Julie 2 Battery

Sample ID: <b>mb-68990</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68990</b>	RunNo: <b>89759</b>								
Prep Date: <b>7/22/2022</b>	Analysis Date: <b>7/25/2022</b>	SeqNo: <b>3196597</b>	Units: <b>mg/Kg</b>							
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: <b>LCS-68990</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68990</b>	RunNo: <b>89759</b>								
Prep Date: <b>7/22/2022</b>	Analysis Date: <b>7/25/2022</b>	SeqNo: <b>3196598</b>	Units: <b>mg/Kg</b>							
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: <b>2207b16-002ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>WES22-39 2-4'</b>	Batch ID: <b>68990</b>	RunNo: <b>89759</b>								
Prep Date: <b>7/22/2022</b>	Analysis Date: <b>7/25/2022</b>	SeqNo: <b>3196601</b>	Units: <b>mg/Kg</b>							
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: <b>2207b16-002amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>WES22-39 2-4'</b>	Batch ID: <b>68990</b>	RunNo: <b>89759</b>								
Prep Date: <b>7/22/2022</b>	Analysis Date: <b>7/25/2022</b>	SeqNo: <b>3196602</b>	Units: <b>mg/Kg</b>							
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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 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 [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: JA 7/22/22

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 1.1, 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](http://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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order **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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	ND	60		mg/Kg	20	7/26/2022 1:53:46 PM	69062
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	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 **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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	ND	60		mg/Kg	20	7/26/2022 2:06:10 PM	69062
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

<b>Qualifiers:</b>	*	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 **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
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>NAI</b>
Chloride	890	60		mg/Kg	20	7/26/2022 2:18:34 PM	69062
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>DGH</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
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.

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

Sample ID: <b>LCS-69062</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>69062</b>	RunNo: <b>89791</b>								
Prep Date: <b>7/26/2022</b>	Analysis Date: <b>7/26/2022</b>	SeqNo: <b>3198666</b>	Units: <b>mg/Kg</b>							
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.
- 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#: 2207B81

28-Jul-22

**Client:** EOG  
**Project:** Julie 2 Battery

Sample ID: <b>LCS-69038</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>69038</b>		RunNo: <b>89790</b>							
Prep Date: <b>7/25/2022</b>	Analysis Date: <b>7/26/2022</b>		SeqNo: <b>3197677</b>		Units: <b>mg/Kg</b>					
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: <b>MB-69038</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>							
Client ID: <b>PBS</b>	Batch ID: <b>69038</b>		RunNo: <b>89790</b>							
Prep Date: <b>7/25/2022</b>	Analysis Date: <b>7/26/2022</b>		SeqNo: <b>3197678</b>		Units: <b>mg/Kg</b>					
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.
- 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#: 2207B81

28-Jul-22

**Client:** EOG  
**Project:** Julie 2 Battery

Sample ID: <b>mb-69014</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>69014</b>	RunNo: <b>89759</b>								
Prep Date: <b>7/23/2022</b>	Analysis Date: <b>7/25/2022</b>	SeqNo: <b>3196547</b>	Units: <b>mg/Kg</b>							
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: <b>lcs-69014</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>69014</b>	RunNo: <b>89759</b>								
Prep Date: <b>7/23/2022</b>	Analysis Date: <b>7/25/2022</b>	SeqNo: <b>3196548</b>	Units: <b>mg/Kg</b>							
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.
- 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#: 2207B81

28-Jul-22

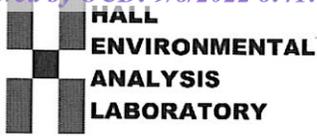
**Client:** EOG  
**Project:** Julie 2 Battery

Sample ID: <b>mb-69014</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>69014</b>	RunNo: <b>89759</b>								
Prep Date: <b>7/23/2022</b>	Analysis Date: <b>7/25/2022</b>	SeqNo: <b>3196589</b>	Units: <b>mg/Kg</b>							
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: <b>LCS-69014</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>69014</b>	RunNo: <b>89759</b>								
Prep Date: <b>7/23/2022</b>	Analysis Date: <b>7/25/2022</b>	SeqNo: <b>3196590</b>	Units: <b>mg/Kg</b>							
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 |   |



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 RptNo: 1

Received By: Juan Rojas 7/23/2022 8:10:00 AM
Completed By: Juan Rojas 7/23/2022 9:20:37 AM
Reviewed By: [Signature] 07/23/2022

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH:
(<2 or >12 unless noted)
Adjusted?
Checked by: Juan 7/23/22

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 4.2, Good, [ ], [ ], [ ], [ ]

### Chain-of-Custody Record

Client: EOG

Turn-Around Time:  Standard  Rush 48 Hour

Project Name: Julie #2 Battery

Project #: 22E-00716-011

Project Manager: Monica Peppin

Sampler: Joseph Barajas

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including CF): 44.2 = 4.2 (°C)

Container Type and # Jar Preservative Type Ice HEAL No. 2207B81

Date 7/21 13:40 Matrix WES22-41-16' Sample Name WES22-41-16'

Date 7/21 13:30 Matrix WES22-42-16' Sample Name WES22-42-16'

Date 7/21 13:50 Matrix per sample bottle in 7/23/22 Sample Name BES22-09-20'

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

Accreditation:  Az Compliance  NELAC  Other

EDD (Type): \_\_\_\_\_

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	TPH:8015D(GRO / DRO / MRO)	BTEX / MTBE / TMB's (8021)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	(C) F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
7/21	13:40		WES22-41-16'	Jar	Ice	2207B81	✓	✓					✓			
7/21	13:30		WES22-42-16'	Jar	Ice	-002	✓	✓					✓			
7/21	13:50		BES22-09-20'	Jar	Ice	-005	✓	✓					✓			
			per sample bottle in 7/23/22													

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished by: Chumma Date: 7/22/22 Time: 1900

Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: Chumma Date: 7/22/22 Time: 1030

Via: \_\_\_\_\_

Via: courier Date: 7/23/22 Time: 8:10

### Analysis Request

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

Remarks: Direct bill to EOG



Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://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](http://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 **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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>DGH</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>BRM</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>BRM</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

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

Sample ID: <b>LCS-69832</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>69832</b>	RunNo: <b>90648</b>								
Prep Date: <b>8/29/2022</b>	Analysis Date: <b>8/29/2022</b>	SeqNo: <b>3239412</b>	Units: <b>mg/Kg</b>							
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.
- 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: <b>LCS-69815</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>69815</b>	RunNo: <b>90634</b>								
Prep Date: <b>8/29/2022</b>	Analysis Date: <b>8/29/2022</b>	SeqNo: <b>3238730</b>	Units: <b>%Rec</b>							
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: <b>MB-69815</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>69815</b>	RunNo: <b>90634</b>								
Prep Date: <b>8/29/2022</b>	Analysis Date: <b>8/29/2022</b>	SeqNo: <b>3238731</b>	Units: <b>%Rec</b>							
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: <b>LCS-69828</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>69828</b>	RunNo: <b>90634</b>								
Prep Date: <b>8/29/2022</b>	Analysis Date: <b>8/30/2022</b>	SeqNo: <b>3239246</b>	Units: <b>mg/Kg</b>							
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: <b>MB-69828</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>69828</b>	RunNo: <b>90634</b>								
Prep Date: <b>8/29/2022</b>	Analysis Date: <b>8/30/2022</b>	SeqNo: <b>3239248</b>	Units: <b>mg/Kg</b>							
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: <b>2208G88-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BES22-09 20.5</b>	Batch ID: <b>69828</b>	RunNo: <b>90634</b>								
Prep Date: <b>8/29/2022</b>	Analysis Date: <b>8/30/2022</b>	SeqNo: <b>3239369</b>	Units: <b>mg/Kg</b>							
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: <b>2208G88-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BES22-09 20.5</b>	Batch ID: <b>69828</b>	RunNo: <b>90634</b>								
Prep Date: <b>8/29/2022</b>	Analysis Date: <b>8/30/2022</b>	SeqNo: <b>3239370</b>	Units: <b>mg/Kg</b>							
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.
- 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: <b>2208G88-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>BES22-09 20.5</b>	Batch ID: <b>69828</b>	RunNo: <b>90634</b>								
Prep Date: <b>8/29/2022</b>	Analysis Date: <b>8/30/2022</b>	SeqNo: <b>3239370</b> Units: <b>mg/Kg</b>								
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: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>A90618</b>		RunNo: <b>90618</b>							
Prep Date:	Analysis Date: <b>8/27/2022</b>		SeqNo: <b>3237682</b>		Units: <b>mg/Kg</b>					
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: <b>mb</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>A90618</b>		RunNo: <b>90618</b>							
Prep Date:	Analysis Date: <b>8/27/2022</b>		SeqNo: <b>3237683</b>		Units: <b>mg/Kg</b>					
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: <b>2208g88-001ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>BES22-09 20.5</b>	Batch ID: <b>A90618</b>		RunNo: <b>90618</b>							
Prep Date:	Analysis Date: <b>8/27/2022</b>		SeqNo: <b>3237685</b>		Units: <b>mg/Kg</b>					
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: <b>2208g88-001amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>BES22-09 20.5</b>	Batch ID: <b>A90618</b>		RunNo: <b>90618</b>							
Prep Date:	Analysis Date: <b>8/27/2022</b>		SeqNo: <b>3237686</b>		Units: <b>mg/Kg</b>					
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: <b>2.5ug gro lcs 2</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>C90618</b>		RunNo: <b>90618</b>							
Prep Date:	Analysis Date: <b>8/27/2022</b>		SeqNo: <b>3237706</b>		Units: <b>%Rec</b>					
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: <b>mb 2</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>C90618</b>		RunNo: <b>90618</b>							
Prep Date:	Analysis Date: <b>8/27/2022</b>		SeqNo: <b>3237707</b>		Units: <b>%Rec</b>					
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.
- 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: <b>100ng btex lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>B90618</b>	RunNo: <b>90618</b>								
Prep Date:	Analysis Date: <b>8/27/2022</b>	SeqNo: <b>3237718</b>	Units: <b>mg/Kg</b>							
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: <b>mb</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>B90618</b>	RunNo: <b>90618</b>								
Prep Date:	Analysis Date: <b>8/27/2022</b>	SeqNo: <b>3237719</b>	Units: <b>mg/Kg</b>							
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: <b>2208g88-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>BES22-09 20.5</b>	Batch ID: <b>B90618</b>	RunNo: <b>90618</b>								
Prep Date:	Analysis Date: <b>8/27/2022</b>	SeqNo: <b>3237724</b>	Units: <b>mg/Kg</b>							
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: <b>100ng btex lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>D90618</b>	RunNo: <b>90618</b>								
Prep Date:	Analysis Date: <b>8/27/2022</b>	SeqNo: <b>3237742</b>	Units: <b>%Rec</b>							
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: <b>mb 2</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>D90618</b>	RunNo: <b>90618</b>								
Prep Date:	Analysis Date: <b>8/27/2022</b>	SeqNo: <b>3237743</b>	Units: <b>%Rec</b>							
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: <b>mb 2</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>D90618</b>	RunNo: <b>90618</b>								
Prep Date:	Analysis Date: <b>8/27/2022</b>	SeqNo: <b>3237743</b>			Units: <b>%Rec</b>					
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 |   |



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 I-ox

Chain of Custody

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

Log In

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

# of preserved bottles checked for pH: 30 8-27-22
Adjusted?
Checked by:

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Rows 1-3.





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://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](http://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 **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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	* 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	* 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 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	* 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:** WES22-28 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	* 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:** WES22-28 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	* 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:** WES22-29 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	* 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:** WES22-29 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	* 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:** WES22-32 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>NAI</b>
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.

<b>Qualifiers:</b>	* 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:** WES22-32 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	*	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:** 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	* 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:** WES22-01 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	* 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:** WES22-08 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	* 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:** WES22-09 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	* 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:** WES22-20 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>NAI</b>
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.

<b>Qualifiers:</b>	* 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:** WES22-20 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>NAI</b>
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.

<b>Qualifiers:</b>	* 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:** WES22-24 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	* 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:** WES22-24 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	* 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:** WES22-34 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	* 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:** WES22-34 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	* 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:** WES22-35 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
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.

<b>Qualifiers:</b>	* 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:** WES22-35 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
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.

<b>Qualifiers:</b>	* 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:** WES22-36 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
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.

<b>Qualifiers:</b>	* 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:** WES22-36 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>ED</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>NSB</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>CAS</b>
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.

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

Sample ID: <b>LCS-68654</b>	SampType: <b>lcs</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68654</b>	RunNo: <b>89355</b>								
Prep Date: <b>7/8/2022</b>	Analysis Date: <b>7/10/2022</b>	SeqNo: <b>3178512</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.2	90	110			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2207061

14-Jul-22

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

**Project:** Julie 2 Battery

Sample ID: <b>MB-68586</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68586</b>	RunNo: <b>89260</b>								
Prep Date: <b>7/6/2022</b>	Analysis Date: <b>7/8/2022</b>	SeqNo: <b>3178997</b>			Units: <b>mg/Kg</b>					
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: <b>LCS-68586</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68586</b>	RunNo: <b>89260</b>								
Prep Date: <b>7/6/2022</b>	Analysis Date: <b>7/8/2022</b>	SeqNo: <b>3178998</b>			Units: <b>mg/Kg</b>					
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: <b>MB-68594</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68594</b>	RunNo: <b>89368</b>								
Prep Date: <b>7/6/2022</b>	Analysis Date: <b>7/11/2022</b>	SeqNo: <b>3180208</b>			Units: <b>mg/Kg</b>					
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: <b>LCS-68594</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68594</b>	RunNo: <b>89368</b>								
Prep Date: <b>7/6/2022</b>	Analysis Date: <b>7/11/2022</b>	SeqNo: <b>3180209</b>			Units: <b>mg/Kg</b>					
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: <b>2207061-021AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>WES22-35 2'</b>	Batch ID: <b>68594</b>	RunNo: <b>89368</b>								
Prep Date: <b>7/6/2022</b>	Analysis Date: <b>7/11/2022</b>	SeqNo: <b>3180211</b>			Units: <b>mg/Kg</b>					
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.
- 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: <b>2207061-021AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>WES22-35 2'</b>	Batch ID: <b>68594</b>	RunNo: <b>89368</b>								
Prep Date: <b>7/6/2022</b>	Analysis Date: <b>7/11/2022</b>	SeqNo: <b>3180212</b>	Units: <b>mg/Kg</b>							
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: <b>MB-68675</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68675</b>	RunNo: <b>89401</b>								
Prep Date: <b>7/11/2022</b>	Analysis Date: <b>7/12/2022</b>	SeqNo: <b>3180414</b>	Units: <b>%Rec</b>							
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: <b>LCS-68675</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68675</b>	RunNo: <b>89401</b>								
Prep Date: <b>7/11/2022</b>	Analysis Date: <b>7/12/2022</b>	SeqNo: <b>3180415</b>	Units: <b>%Rec</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		96.3	51.1	141			

**Qualifiers:**

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2207061

14-Jul-22

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

**Project:** Julie 2 Battery

Sample ID: <b>mb-68555</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>68555</b>		RunNo: <b>89271</b>							
Prep Date: <b>7/5/2022</b>	Analysis Date: <b>7/6/2022</b>		SeqNo: <b>3174484</b>		Units: <b>mg/Kg</b>					
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: <b>lcs-68555</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>68555</b>		RunNo: <b>89271</b>							
Prep Date: <b>7/5/2022</b>	Analysis Date: <b>7/6/2022</b>		SeqNo: <b>3174485</b>		Units: <b>mg/Kg</b>					
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: <b>2207061-007ams</b>	SampType: <b>MS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>WES22-29 16'</b>	Batch ID: <b>68555</b>		RunNo: <b>89271</b>							
Prep Date: <b>7/5/2022</b>	Analysis Date: <b>7/6/2022</b>		SeqNo: <b>3174487</b>		Units: <b>mg/Kg</b>					
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: <b>2207061-007amsd</b>	SampType: <b>MSD</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>WES22-29 16'</b>	Batch ID: <b>68555</b>		RunNo: <b>89271</b>							
Prep Date: <b>7/5/2022</b>	Analysis Date: <b>7/6/2022</b>		SeqNo: <b>3174488</b>		Units: <b>mg/Kg</b>					
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: <b>lcs-68550</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>68550</b>		RunNo: <b>89287</b>							
Prep Date: <b>7/5/2022</b>	Analysis Date: <b>7/6/2022</b>		SeqNo: <b>3175349</b>		Units: <b>mg/Kg</b>					
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: <b>mb-68550</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>68550</b>		RunNo: <b>89287</b>							
Prep Date: <b>7/5/2022</b>	Analysis Date: <b>7/6/2022</b>		SeqNo: <b>3175350</b>		Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**Qualifiers:**

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2207061

14-Jul-22

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

**Project:** Julie 2 Battery

Sample ID: <b>mb-68550</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68550</b>	RunNo: <b>89287</b>								
Prep Date: <b>7/5/2022</b>	Analysis Date: <b>7/6/2022</b>	SeqNo: <b>3175350</b>			Units: <b>mg/Kg</b>					
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: <b>mb-68555</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68555</b>	RunNo: <b>89271</b>								
Prep Date: <b>7/5/2022</b>	Analysis Date: <b>7/6/2022</b>	SeqNo: <b>3174523</b>	Units: <b>mg/Kg</b>							
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: <b>LCS-68555</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68555</b>	RunNo: <b>89271</b>								
Prep Date: <b>7/5/2022</b>	Analysis Date: <b>7/6/2022</b>	SeqNo: <b>3174524</b>	Units: <b>mg/Kg</b>							
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: <b>2207061-008ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>WES22-32 10'</b>	Batch ID: <b>68555</b>	RunNo: <b>89271</b>								
Prep Date: <b>7/5/2022</b>	Analysis Date: <b>7/6/2022</b>	SeqNo: <b>3174527</b>	Units: <b>mg/Kg</b>							
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: <b>2207061-008amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>WES22-32 10'</b>	Batch ID: <b>68555</b>	RunNo: <b>89271</b>								
Prep Date: <b>7/5/2022</b>	Analysis Date: <b>7/6/2022</b>	SeqNo: <b>3174528</b>	Units: <b>mg/Kg</b>							
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.
- 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.

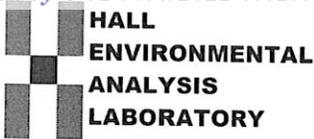
**Project:** Julie 2 Battery

Sample ID: <b>ics-68550</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>68550</b>		RunNo: <b>89287</b>							
Prep Date: <b>7/5/2022</b>	Analysis Date: <b>7/6/2022</b>		SeqNo: <b>3175424</b>		Units: <b>mg/Kg</b>					
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: <b>mb-68550</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>68550</b>		RunNo: <b>89287</b>							
Prep Date: <b>7/5/2022</b>	Analysis Date: <b>7/6/2022</b>		SeqNo: <b>3175425</b>		Units: <b>mg/Kg</b>					
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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 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 [checked] No [ ] Not Present [ ]
2. How was the sample delivered? Courier

Log In

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

# of preserved bottles checked for pH: (<2 or >12-unless noted) Adjusted? Checked by: JSC 7/5/22

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

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



# Chain-of-Custody Record

Client: EOG / verity

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 #: 22E-00716-011

Project Manager: MONICA PEPPIN

Sampler: Chance Dixon

On Ice:  Yes  No

# of Coolers: 2

Cooler Temp (including CP): 3.7-0.1 = 3.6  
4.6-0.1 = 4.5 (°C)

Container Type and #

Preservative Type

HEAL No.

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
6/30	9:00	SOIL	WES22-01 2'	40Z	ICE	7207061
	9:05		WES22-08 2'			012
	9:10		WES22-09 2'			013
	9:15		WES22-10 2'			014
	9:20		WES22-20 2'			015
	9:25		WES22-20 4'			016
	9:30		WES22-24 2'			017
	9:35		WES22-24 4'			018
	9:40		WES22-34 2'			019
	9:45		WES22-34 4'			020
	9:50		WES22-35 2'			021
	9:55		WES22-35 4'			022

Received by: \_\_\_\_\_ Date: 7/1/22 Time: 9:00

Relinquished by: \_\_\_\_\_ Date: 7/2/22 Time: 09:35



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://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](http://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 **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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	*	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:** BES22-03 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	* 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:** BES22-04 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	*	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:** BES22-05 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	*	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:** BES22-06 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	*	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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

<b>Qualifiers:</b>	*	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:** BES22-08 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
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>						Analyst: <b>SB</b>
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
<b>EPA METHOD 8015D: GASOLINE RANGE</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: <b>RAA</b>
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
<b>EPA METHOD 300.0: ANIONS</b>						Analyst: <b>JTT</b>
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.

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

Sample ID: <b>LCS-68732</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68732</b>	RunNo: <b>89473</b>								
Prep Date: <b>7/12/2022</b>	Analysis Date: <b>7/13/2022</b>	SeqNo: <b>3183569</b>	Units: <b>mg/Kg</b>							
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: <b>MB-68737</b>	SampType: <b>mblk</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68737</b>	RunNo: <b>89473</b>								
Prep Date: <b>7/12/2022</b>	Analysis Date: <b>7/13/2022</b>	SeqNo: <b>3183598</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-68737</b>	SampType: <b>ics</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68737</b>	RunNo: <b>89473</b>								
Prep Date: <b>7/12/2022</b>	Analysis Date: <b>7/13/2022</b>	SeqNo: <b>3183599</b>	Units: <b>mg/Kg</b>							
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.
- 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: <b>MB-68628</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>68628</b>	RunNo: <b>89385</b>								
Prep Date: <b>7/7/2022</b>	Analysis Date: <b>7/8/2022</b>	SeqNo: <b>3179983</b>			Units: <b>mg/Kg</b>					
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: <b>LCS-68628</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>68628</b>	RunNo: <b>89385</b>								
Prep Date: <b>7/7/2022</b>	Analysis Date: <b>7/8/2022</b>	SeqNo: <b>3179985</b>			Units: <b>mg/Kg</b>					
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.
- 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: <b>ics-68623</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>68623</b>		RunNo: <b>89348</b>							
Prep Date: <b>7/7/2022</b>	Analysis Date: <b>7/8/2022</b>		SeqNo: <b>3178144</b>		Units: <b>mg/Kg</b>					
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: <b>mb-68623</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8015D: Gasoline Range</b>							
Client ID: <b>PBS</b>	Batch ID: <b>68623</b>		RunNo: <b>89348</b>							
Prep Date: <b>7/7/2022</b>	Analysis Date: <b>7/8/2022</b>		SeqNo: <b>3178145</b>		Units: <b>mg/Kg</b>					
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: <b>ics-68623</b>	SampType: <b>LCS</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>68623</b>		RunNo: <b>89348</b>							
Prep Date: <b>7/7/2022</b>	Analysis Date: <b>7/8/2022</b>		SeqNo: <b>3178205</b>		Units: <b>mg/Kg</b>					
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: <b>mb-68623</b>	SampType: <b>MBLK</b>		TestCode: <b>EPA Method 8021B: Volatiles</b>							
Client ID: <b>PBS</b>	Batch ID: <b>68623</b>		RunNo: <b>89348</b>							
Prep Date: <b>7/7/2022</b>	Analysis Date: <b>7/8/2022</b>		SeqNo: <b>3178206</b>		Units: <b>mg/Kg</b>					
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.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



# Sample Log-In Check List

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

Work Order Number: **2207186**

RcptNo: 1

Received By: **Juan Rojas**

7/7/2022 7:45:00 AM

Completed By: **Cheyenne Cason**

7/7/2022 7:48:55 AM

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:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

16. Additional remarks:

### 17. Cooler Information

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

# Chain-of-Custody Record

Client: EOG/Verde

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: Monica Peppin

Sampler: CD

On Ice:  Yes  No

# of Coolers: 1

Cooler Temp (including CP): 0:4-0.1-0.3 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
7/1	10:00	Soil	BES22-01 4'	40Z	ICE	2207186
	10:05		BES22-03 4'			001
	10:10		BES22-04 6'			002
	10:15		BES22-05 6'			003
	10:20		BES22-06 6'			004
	10:25		BES22-07 6'			005
	10:30		BES22-08 6'			006
						007

**Analysis Request**

<input checked="" type="checkbox"/> BTEX / MTBE / TMBs (8021)	<input checked="" type="checkbox"/> TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCBs	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
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Received by: Manning Date: 7/1/22 Time: 7:50

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: BA course 7/1/22 Date: 7/1/22 Time: 7:45

Relinquished by: gump Date: 1900 Time: 1900

Remarks: CC: Chanel Dixon  
Direct Bill EOG

**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