	Page 1 of 43	33
Incident ID	nAPP2213024415	
District RP		
Facility ID		
Application ID		

Closure

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

Closure Report Attachment Checklist: Each of the following item	ms must be included in the closure report.		
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	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 I	District office must be notified 2 days prior to final sampling)		
Description of remediation activities			
and regulations all operators are required to report and/or file certain a may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and reme human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the conductor accordance with 19.15.29.13 NMAC including notification to the OC Printed Name: Dale Woodall Title:	chiate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in		
OCD Only			
Received by: Robert Hamlet	Date: 11/22/2022		
	f liability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible regulations.		
Closure Approved by: Robert Hamlet	Date: 11/22/2022		
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced		

Received by OCD: 11/1/2022 7:35:26 AM
State of New Mexico
Page 6
Oil Conservation Division

Incident ID nAPP2213024415

District RP
Facility ID
Application ID

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.			
✓ A scaled site and sampling diagram as described in 19.15.29.11 NMAC			
Photographs of the remediated site prior to backfill or pl 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			
and regulations all operators are required to report and/or file of may endanger public health or the environment. The acceptant should their operations have failed to adequately investigate as human health or the environment. In addition, OCD acceptant compliance with any other federal, state, or local laws and/or restore, reclaim, and re-vegetate the impacted surface area to t accordance with 19.15.29.13 NMAC including notification to	C .		
Printed Name:Dale Woodall	Title: Environment Professional		
Signature: Dale Woodall	Date:10/19/2022		
email:dale.wodall@dvn.com	Telephone:575-7481838		
OCD Only			
Received by:	Date:		
	party of liability should their operations have failed to adequately investigate and face water, human health, or the environment nor does not relieve the responsible and/or regulations.		
Closure Approved by:	Date:		
Printed Name:	Title:		



September 26, 2022, Vertex Project #: 22E-01720

Spill Closure Report: Onyx 29 CTB 1

Unit E, Section 29, Township 19 South, Range 29 East

API: N/A County: Eddy

Incident ID: nAPP2213024415, nAPP2116441032

Prepared For: Devon Energy Production Company

6488 Seven Rivers Highway Artesia, New Mexico 88210

New Mexico Oil Conservation Division - District 2 - Artesia

811 S. 1st Street

Artesia, New Mexico 88210

Devon Energy Production Company (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a Spill Assessment and Closure for multiple produced water releases at Onyx 29 CTB 1 (hereafter referred to as "Onyx"). Devon submitted an initial C-141 Release Notification (Attachment 1) for both releases to the New Mexico Oil Conservation Division (NMOCD) District 2 on June 30, 2021, and June 2, 2022. Incident ID numbers nAPP2213024415 and nAPP2116441032 were assigned to the incidents.

This letter provides a description of each release assessment and remediation activities that demonstrates that closure criteria established in Table I of 19.15.29.12 *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) are being met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for the closure of these releases. This is with the understanding that restoration of the release sites will be deferred until such time as all oil and gas activities are terminated and the site is reclaimed per 19.15.29.13 of NMAC.

Incident Descriptions

nAPP2113024415

The release for nAPP2113024415 occurred on the south side of the location when a recirculating line on the oil tanks developed a leak. The fluid traveled southeast and southwest of the oil tanks and stopped on the pad. The horizontal extent of the release was approximately 300 feet long. 28.3 barrels of oil and produced water were released. After the release, a hydrovac was brought on-site to recover the fluids. Approximately eight barrels of the fluids were recovered. No oil or produced water was released into waterways.

nAPP2116441032

The release for nAPP2116441032 occurred on the north side of Onyx when a water line near the heater treaters developed a leak. The fluid traveled west approximately 125 feet and stopped at the middle of the pad. The leak resulted in the release of nine and a half barrels of produced water. After the release, a hydrovac was brought on-site to recover vertex.ca

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2022 Spill Assessment and Closure September 2022

the fluids. Approximately one barrel of the fluids was recovered. No produced water was released into waterways.

Site Characterization

The releases at Devon's Onyx site occurred on state land at 32.634740° N, 104.102030° W, approximately 16.4 miles northeast of Carlsbad, New Mexico The legal description for the site is Unit E, Section 29, Township 19 South, Range 29 East in Eddy County, New Mexico. This location is within the Permian Basin in southeast New Mexico and has historically been used for oil and gas exploration and production, and rangeland.

Onyx is typical of oil and gas exploration and production sites on the western portion of the Permian Basin and is currently used for oil and gas production and storage. The following sections specifically describe the release areas on the east side of the constructed pad where the heater treaters and separators are located (Attachment 2).

The nearest active well to Onyx is a New Mexico Office of the State Engineer (NMOSE) monitoring well located approximately 1.62 miles southwest of the site (United States Department of the Interior, United States Geological Survey, 2021). Data from 2013 shows the NMOSE well had a depth to groundwater of 75 feet below the ground surface (bgs). Information pertaining to the depth to groundwater determination is included in Attachment 3.

The surrounding landscape is associated with ridges, plains, and hills with elevations ranging between 1,250 and 5,000 feet. The climate is semiarid with average annual precipitation ranging between 10 and 25 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be tobosa, black grama, and blue grama. Grasses with shrubs and half-shrubs dominate the historic plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2021). Limited to no vegetation is allowed to grow on the compacted production pad, right of way, and access road.

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

There is no surface water located at Onyx. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is the Pecos River located approximately 12.9 miles west of the site. At Onyx, 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.

Closure Criteria Determination

Using site characterization information, a closure criteria determination worksheet (Attachment 3) was completed to determine if the release was subject to any of the special case scenarios outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Based on the data included in the closure criteria determination worksheet, the releases at Onyx are subject to the

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requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC. The release areas are within a high potential for karst geology; therefore, the closure criteria for the incident will assume NMOCD's strictest criteria and are determined to be associated with the following constituent concentration limits.

Table 1. Closure Criteria for Soils Impacted by		
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/I TDS	Constituent	Limit
< 50 Feet	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

Remedial Actions

On May 23, 2022, Devon contracted Vertex to complete release delineation and remediation at Onyx through field screening procedures, oversight of the remediation fieldwork, and final confirmatory sampling. The initial spill inspection and site characterization activities at Onyx were completed by Vertex between May 23 and May 25, 2022. The Daily Field Reports and Daily Soil Sampling Reports associated with the visits are included in Attachment 4. The extent of the south release near the separators and oil tanks (nAPP2116441032) was determined to be approximately 9,705 square feet. The extent of the north release near the heater treaters (nAPP2213024415) was determined to be approximately 1,775 square feet. Initial characterization sample locations for both releases are presented in Figure 1 and Figure 4 (Attachment 2) and laboratory results are presented in Table 1 and Table 4 (Attachment 6).

During excavation and following the completion of excavation activities from August 4 to August 31, 2022, Vertex provided three 48-hour notifications of continuous confirmation sampling to NMOCD (Attachment 5), as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC. The releases were remediated horizontally and vertically with a Vertex representative on-site to conduct field screening procedures. The final square footage for the south excavation was 9,222 square feet. The final square footage for the north release near the heater treaters was 4,224 square feet. On August 31, 2022, excavation was completed with approximately 3,520 total cubic yards excavated and hauled to R360.

On August 9 through August 26, 2022, Vertex collected a total of 65 five-point composite confirmatory samples from the base and the sidewalls of the south excavation, at depths ranging between 1 and 8 feet bgs. On August 29 through August 31, 2022, Vertex collected a total of 33 five-point composite confirmatory samples from the base and sidewalls of the north excavation, at depths ranging between 1 and 4 feet bgs. Each composite sample was representative of no more than 200 square feet per the alternate sampling method outlined in Subparagraph (c) of Paragraph (1) of Subsection D 19.15.29.12 NMAC, which does not require prior NMOCD approval. The composite samples were placed into laboratory-provided containers, preserved on ice, and submitted to a National Environmental Laboratory Accreditation Program-approved laboratory for chemical analysis. Confirmation sample locations for both releases are presented in Figure 2 and Figure 5 (Attachment 2) and laboratory results are presented in Table 3 and Table 6 (Attachment 6).

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Laboratory analyses included Method 300.0 for chlorides, Method 8021B for volatile organics, including BTEX, and EPA Method 8015 for TPH, including MRO, DRO, and GRO. Confirmatory sample analytical data are summarized in Attachment 6. Laboratory data reports and chain of custody forms are included in Attachment 7.

A GeoExplorer 7000 Series Trimble global positioning system unit was used to map the approximate center of each of the five-point composite samples.

On September 7, 2022, backfill was completed for both releases. Approximately 3,520 cubic yards of clean, uncontaminated soil were obtained from Devon and the landowner for this purpose.

Closure Request

Vertex recommends no additional remediation action to address the releases at Onyx. Laboratory analyses of confirmatory samples collected at Onyx show final values below NMOCD closure criteria for areas where depth to groundwater is less than 50 feet bgs as presented in Table 1. There are no anticipated risks to human, ecological or hydrological receptors at the release site.

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

Vertex requests that these incidents (nAPP2213024415 and nAPP2116441032) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Devon certifies that all information in this report and the attachments are correct and that they have complied with all applicable closure requirements and conditions specified in division rules and directives to meet NMOCD requirements to obtain closure on the releases at Onyx.

Should you have any questions or concerns, please do not hesitate to contact Kent Stallings at 346.814.1413 or KStallings@vertex.ca.

Chance Dixon	9/26/2022
Chance Dixon, B.Sc. SR. ENVIRONMENTAL TECHNICIAN, REPORTING	Date
Kent Stallings	9/26/2022
Kent Stallings, P.G. PROJECT MANAGER, REPORT REVIEW	Date
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2022 Spill Assessment and Closure September 2022

Attachments

Attachment 1. NMOCD C-141 Reports

Attachment 2. Figures

Attachment 3. Closure Criteria for Soils Impacted by a Release Research Determination Documentation

Attachment 4. Daily Field Reports with Photographs and Daily Soil Sampling Reports

Attachment 5. Required 48-Hour Notification of Confirmatory Sampling to Regulatory Agencies

Attachment 6. Summarized Lab Data Tables

Attachment 7. Laboratory Data Reports and Chain of Custody Forms

2022 Spill Assessment and Closure September 2022

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2022 Spill Assessment and Closure September 2022

Limitations

This report has been prepared for the sole benefit of Devon Energy Production Company. 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 Devon. 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 professionals 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 judgment of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant 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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

			OGRID	OGRID		
Contact Name Contact			Contact To	Геlерhone		
Contact email In			Incident #	(assigned by OCD)		
Contact mail	ing address					
			Location	of Release So	ource	
Latitude				Longitude		
			(NAD 83 in dec	cimal degrees to 5 decir	nal places)	
Site Name				Site Type		
Date Release	Discovered			API# (if app	olicable)	
Unit Letter	Section	Township	Range	Cour	nts.	1
Omit Letter	Section	Township	Range	Cour	ity	
Surface Owner	r: State	☐ Federal ☐ Tr	ibal Private (A	Name:)
			Natura and	d Volume of 1	Ralaasa	
Crude Oil		(s) Released (Select al Volume Release		calculations or specific	Volume Reco	volumes provided below) vered (bbls)
Produced		· /			Volume Reco	
Troduced	Is the concentration of total dissolved solids (TI		ved solids (TDS)	Yes N	, ,	
in the produced water >10,000 mg/l?						
Condensa	te	Volume Release	d (bbls)		Volume Reco	vered (bbls)
Natural G	Natural Gas Volume Released (Mcf)			Volume Reco	vered (Mcf)	
Other (describe) Volume/Weight Released (provide units)		e units)	Volume/Weig	ht Recovered (provide units)		
Cause of Rele	ease					

Received by OCD: 11/1/2022 7:35:26 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respon	nsible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ☐ No		
If VES, was immediate no	ntice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?
Tr TES, was immediate no	sace given to the GCB. By whom. To wi	which and by what means (phone, email, etc).
	Initial R	esponse
The responsible p	party must undertake the following actions immediated	y unless they could create a safety hazard that would result in injury
☐ The source of the rele	ase has been stopped.	
☐ The impacted area has	s been secured to protect human health and	the environment.
Released materials ha	ve been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
☐ All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
has begun, please attach a	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
regulations all operators are a public health or the environm failed to adequately investiga	required to report and/or file certain release notinent. The acceptance of a C-141 report by the Cate and remediate contamination that pose a three	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name:		Title:
Signature: Kendra	Ruiz	Date:
email:		Telephone:
OCD Only		
Received by:		Date:

	Outputs in red
Contaminated S	Soil measurement
Area (square feet)	Depth(inches)
1971.568	0.500
Cubic Feet of Soil Impacted	82.232
Barrels of Soil Impacted	14.66
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	2.20
Saturation Fluid pres	ent with shovel/backhoe
Estimated Barrels of Oil Released	2.20
Free Standin	ng Fluid Only
Area (square feet)	Depth(inches)
1973.568	0.250
Standing fluid	7.329
Total fluids spilled	9.528

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party			OGRID	OGRID				
Contact Nam	ie			Contact To	Contact Telephone			
Contact emai	i1			Incident #	Incident # (assigned by OCD)			
Contact mail	ing address			-				
			Location	of Release So	ource			
Latitude				Longitude				
			(NAD 83 in de	cimal degrees to 5 decin	nal places)			
Site Name				Site Type				
Date Release	Discovered			API# (if app	olicable)			
Unit Letter	Section	Township	Range	Cour	ntv]		
Ont Letter	Section	Township	runge	Cour	11.7			
Surface Owner	r: State	☐ Federal ☐ Tr	ibal Private (I	Name:)		
			Nature and	d Volume of 1	Release			
Crude Oil		(s) Released (Select al Volume Release		calculations or specific	Volume Reco	volumes provided below) vered (bbls)		
Produced	Water	Volume Release	` '		Volume Recovered (bbls)			
			ion of total dissol	ved solids (TDS)	☐ Yes ☐ No			
		in the produced	water >10,000 mg					
Condensa	te	Volume Release	d (bbls)		Volume Recovered (bbls)			
Natural G	as	Volume Release	d (Mcf)		Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units			e units)	Volume/Weight Recovered (provide units)				
Cause of Rele	ease							

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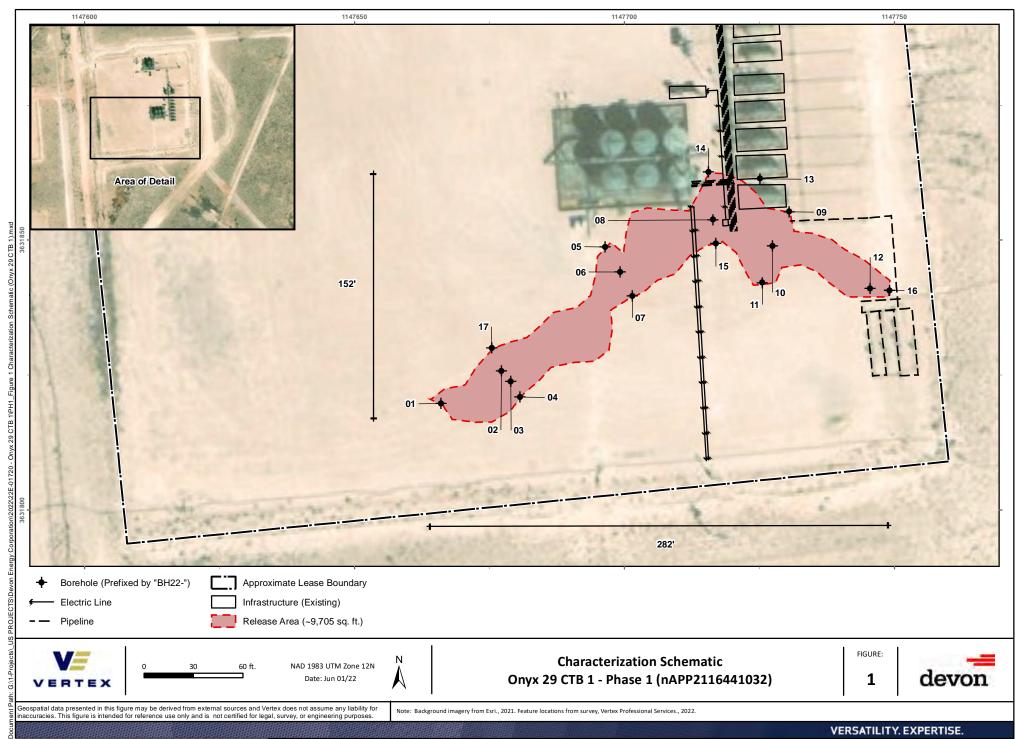
Incident ID	
District RP	
Facility ID	
Application ID	

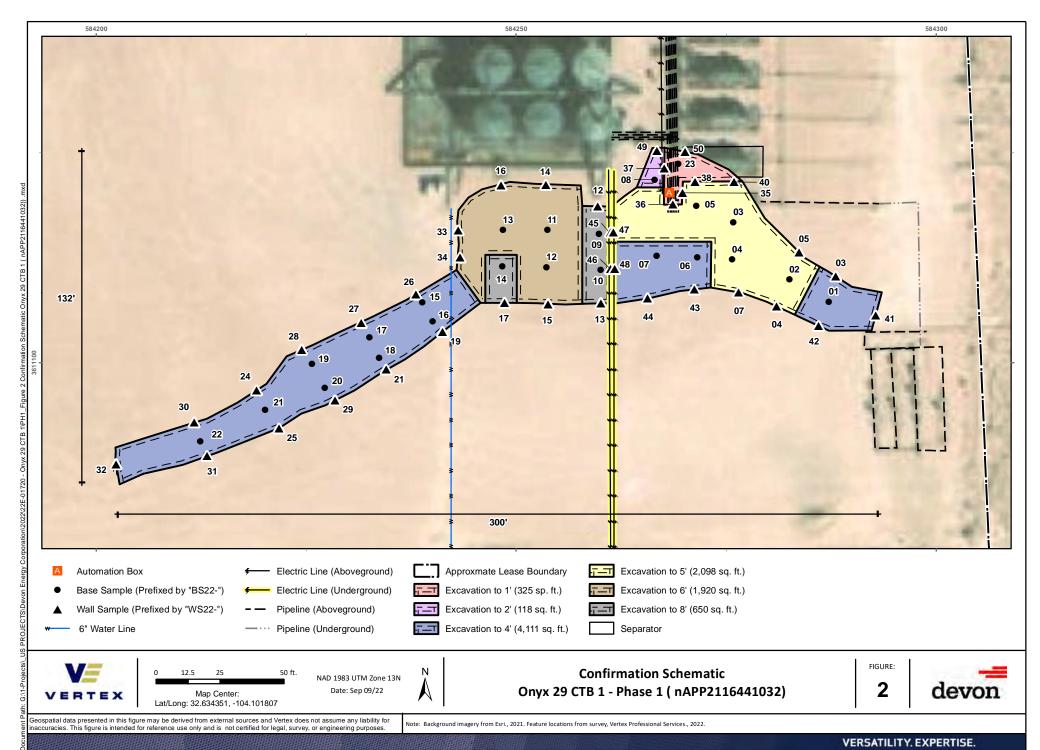
Was this a major release as defined by	nsible party consider this a major release?
19.15.29.7(A) NMAC?	
☐ Yes ☐ No	
If YES, was immediate notice given to the OCD? By whom? To w	nom? When and by what means (phone email etc)?
if 125, was immediate notice given to the GGD. By whom: 10 wi	ioni. When and by what means (phone, email, etc).
Initial R	esponse
The responsible party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
☐ The source of the release has been stopped.	
☐ The impacted area has been secured to protect human health and	the environment.
Released materials have been contained via the use of berms or	likes, absorbent pads, or other containment devices.
All free liquids and recoverable materials have been removed an	
If all the actions described above have <u>not</u> been undertaken, explain	why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence that begun, please attach a narrative of actions to date. If remedial within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC),	
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a three	fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have
addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	
Printed Name:	Title:
Signature: Kendra DeHoyos	Date:
email:	Telephone:
OCD Only	
Received by: Ramona Marcus	Date: 7/6/2021
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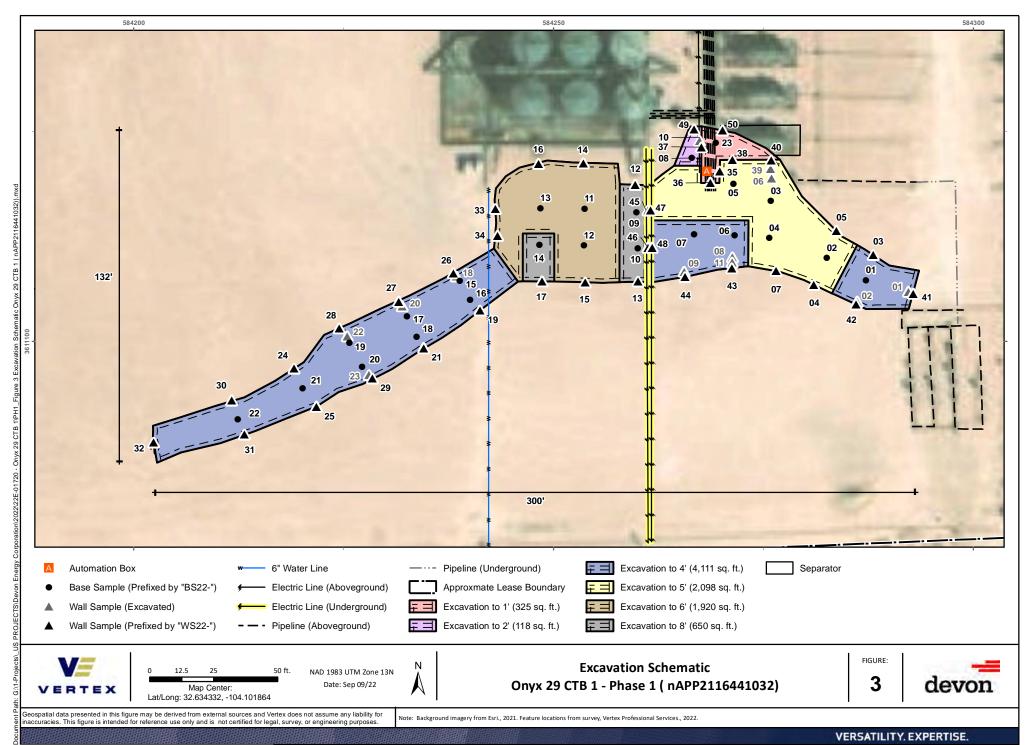
NAPP2116441032

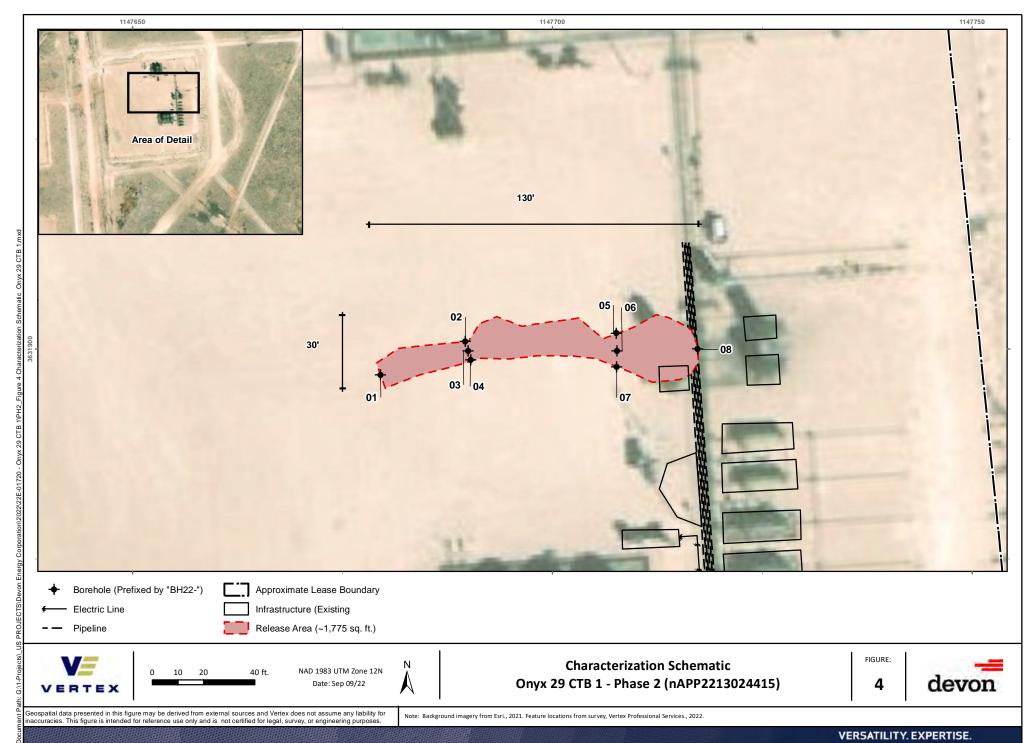
Spi	II Volume(Bbl	s) Calculator		
In	puts in blue, O	utputs in red		
Col	ntaminated Soil	measurement		
Area (squa	are feet)	Depth(inches)		
916	57	0.250		
Cubic Feet of S	Soil Impacted	<u>190.979</u>		
Barrels of So	il Impacted	<u>34.04</u>		
Soil T	уре	Clay/Sand		
Barrels of Oil Assuming 100% Saturation		<u>5.11</u>		
Saturation	Fluid presen	sent with shovel/backhoe		
Estimated Barrels of Oil Released		5.11		
	Free Standing	Fluid Only		
Area (squa	are feet)	Depth(inches)		
6271.	836	0.250		
Standin	g fluid	23.291		
Total fluids spilled		28.398		

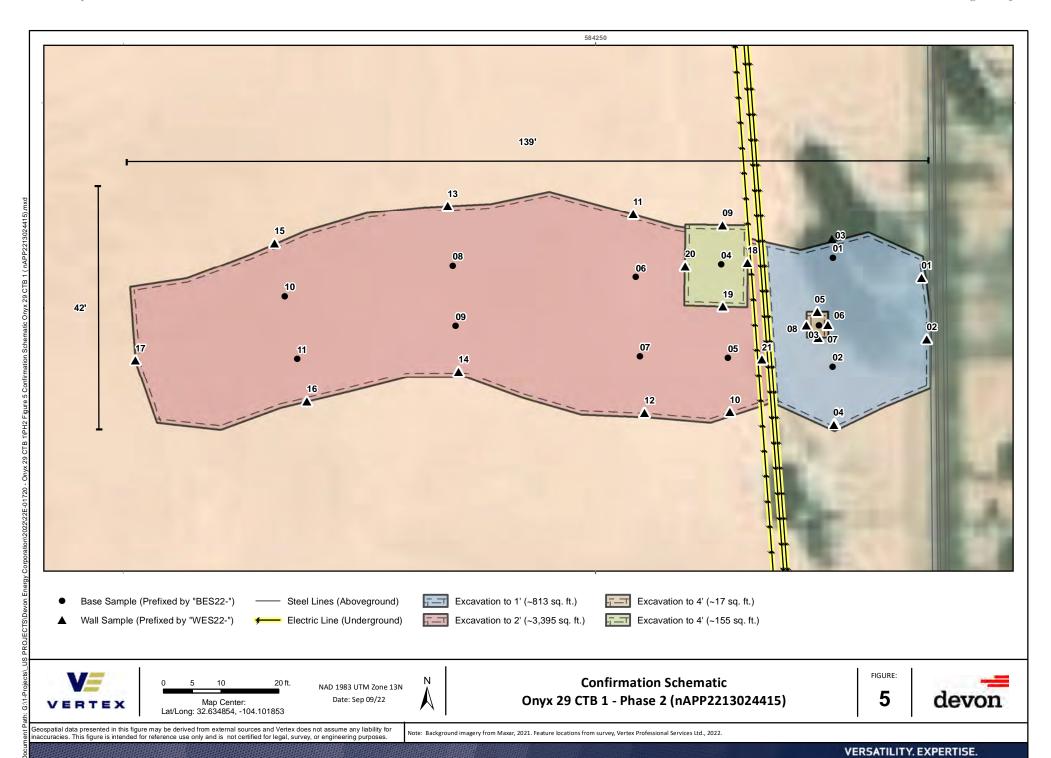
ATTACHMENT 2









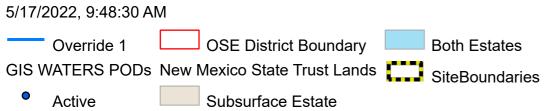


ATTACHMENT 3

Closure C	Criteria Worksheet		
	e: Onyx 29 CTB 1	I	
Spill Coo		X: 32.634723	Y: -104.102095
Site Spec	ific Conditions	Value	Unit
1	Depth to Groundwater	75	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	67,944	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	33,422	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	13,726	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	13,532	feet
	ii) Within 1000 feet of any fresh water well or spring	13,532	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	6,468	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	High	Critical High Medium Low
10	Within a 100-year Floodplain	Area of Minimal Flood Hazard	year
11	Soil Type	Reeves- Gypsum land Complex	
12	Ecological Classification	Loamy	
13	Geology	Qp	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'

Onyx PWU 29 CTB 1

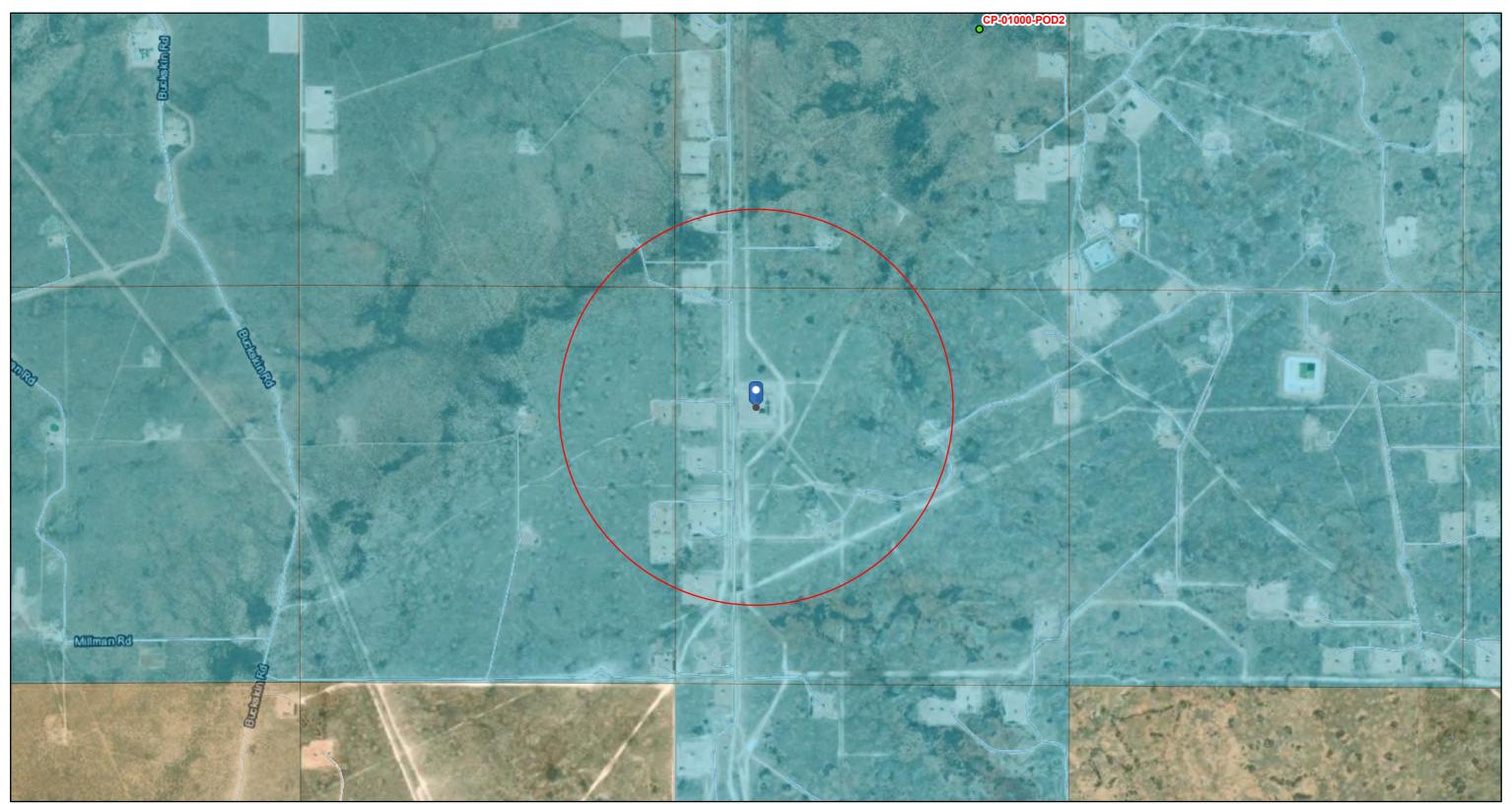




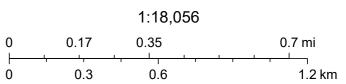
1:18,056 0 0.17 0.35 0.7 mi 0 0.3 0.6 1.2 km

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New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

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

X

CP 01231 POD1

19S 36

582311 3609372

Driller License: 1654 **Driller Company:**

NOT WORKING FOR HIRE--SIRMAN DRILLING

AND CONSTRUC

Driller Name: Drill Start Date:

10/21/2013

Drill Finish Date:

10/21/2013

Plug Date:

Shallow

Log File Date:

10/29/2013

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

80 GPM

Casing Size:

8.00

Depth Well:

300 feet

Depth Water:

75 feet

Water Bearing Stratifications:

Bottom Description Top

200 300 Limestone/Dolomite/Chalk

Casing Perforations:

Top **Bottom**

300

220

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POINT OF DIVERSION SUMMARY 5/17/22 9:52 AM



New Mexico Office of the State Engineer

Water Right Summary

Cross Reference:

get image list

WR File Number: CP 01522 Subbasin: CP

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT PERMIT

Total Acres: 0 Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Agent: GRR,INC.

Contact: SCOTT GREGORY
User: COG OPERATING LLC

Documents on File

 Status
 From/

 Trn #
 Doc
 File/Act
 1
 2
 Transaction Desc.
 To
 Acres
 Diversion
 Consumptive

 606352
 72121
 2015-06-01
 PMT
 APR
 CP 01522
 T
 3

Current Points of Diversion

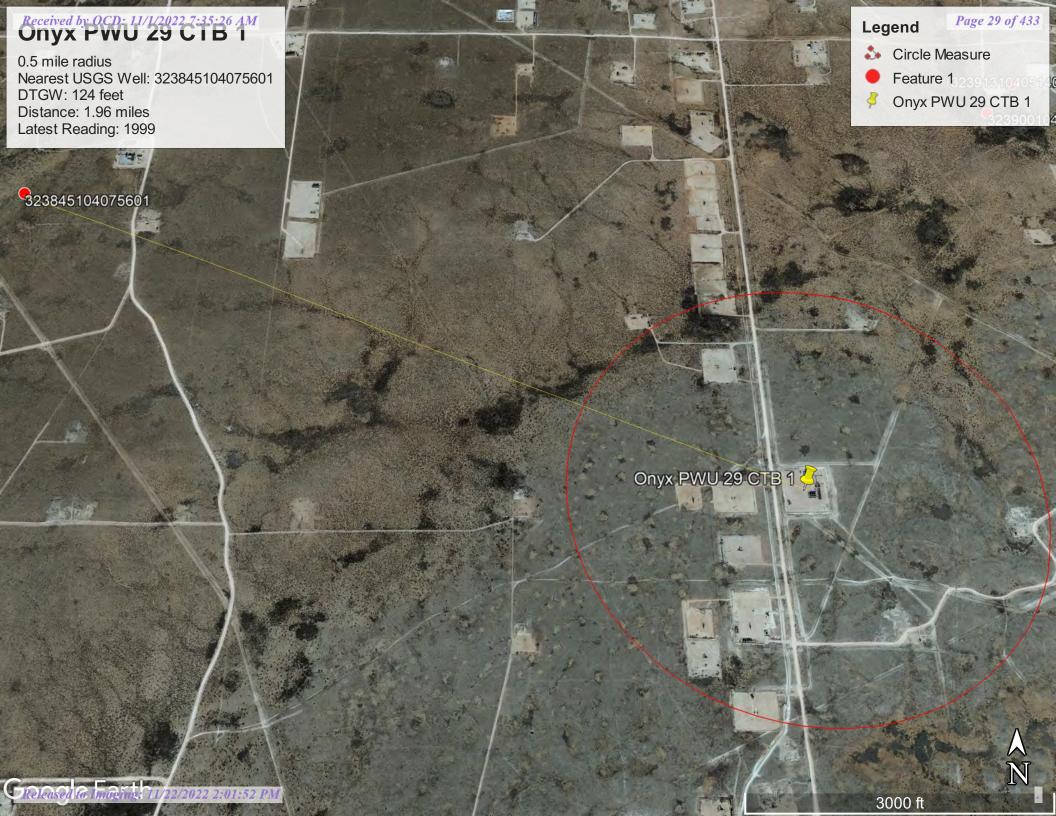
(NAD83 UTM in meters)

 POD Number
 Well Tag
 Source
 64 Q16 Q4 Sec Tws Rng
 X
 Y
 Other Location Desc

 CP 01231 POD1
 Shallow 4 4 2 36 198 28E
 582311 3609372
 3609372

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5/17/22 9:51 AM WATER RIGHT SUMMARY



GO



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National Water Information System: Web Interface

ODGD Water Resources	Groundwater	~ ·	United States
USGS Water Resources	Data Category:		Geographic Area

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access realtime water <u>data</u> from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

site_no list =

• 323845104075601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

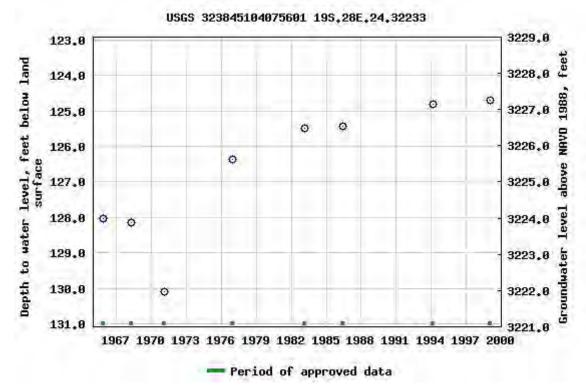
USGS 323845104075601 19S.28E.24.32233

Available data for this site Groundwater: Field measurements V GO

Eddy County, New Mexico
Hydrologic Unit Code 13060011
Latitude 32°38'45", Longitude 104°07'56" NAD27
Land-surface elevation 3,352 feet above NAVD88
This well is completed in the Other aquifers (N99990THER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

<u>Table of data</u>	
Tab-separated data	
Graph of data	
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Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

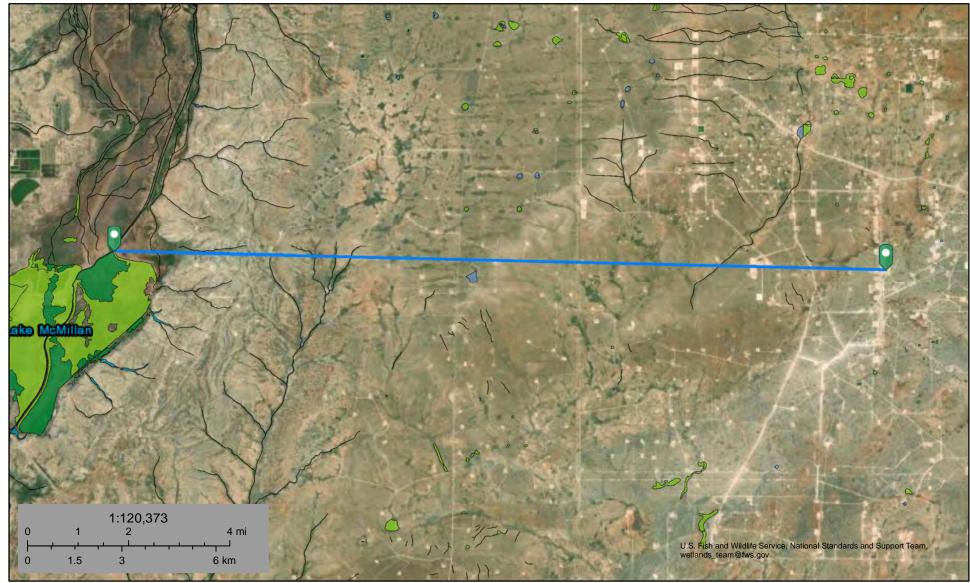
Page Last Modified: 2022-05-17 11:57:58 EDT

0.58 0.49 nadww01





Onyx PWU 29 CTB 1 Watercourse



May 17, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

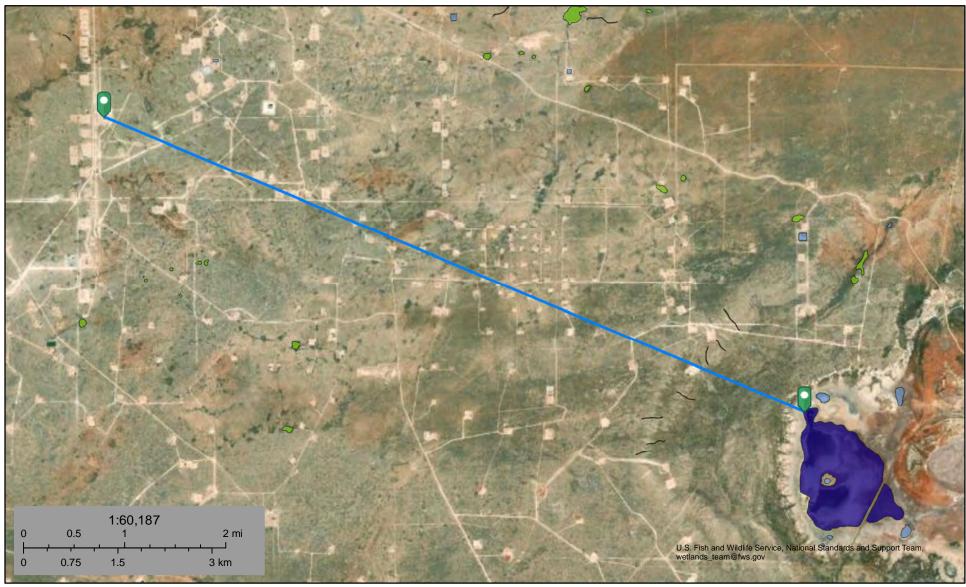
Riverine

Other

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Onyx PWU 29 CTB 1 Lakebed



May 17, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

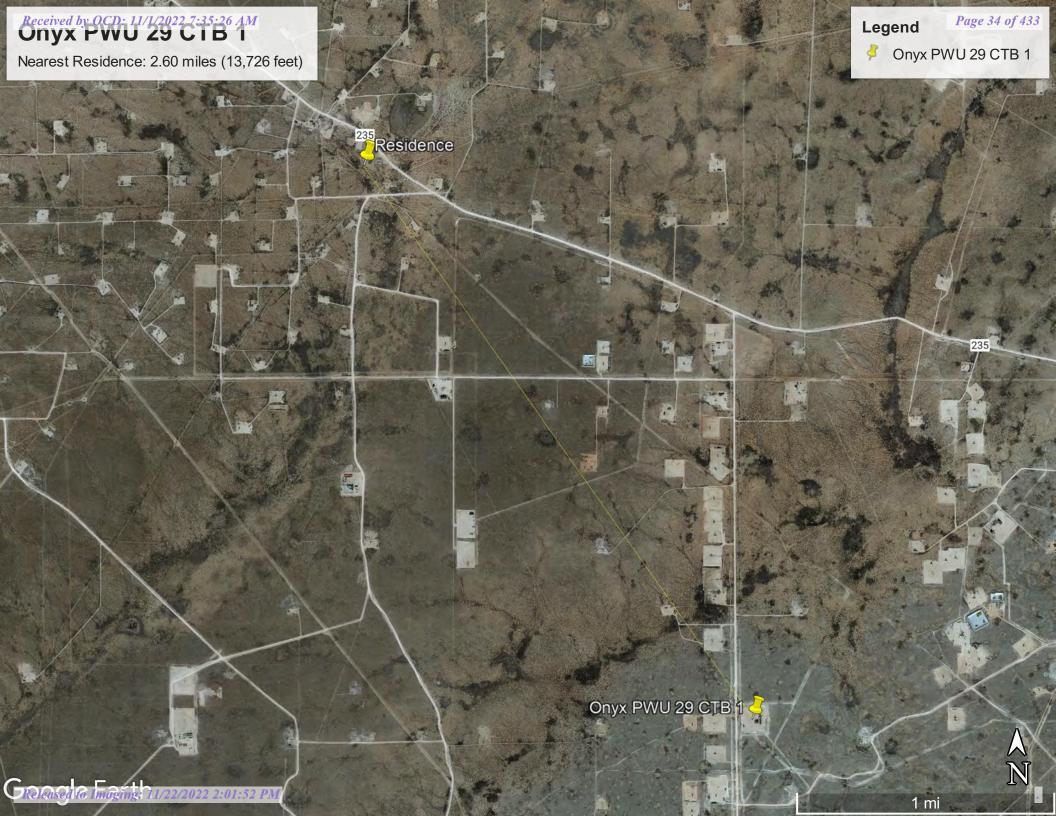
Freshwater Pond

Lake

Other

Riverine

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National Water Information System: Web Interface

USGS Water Resources	ces
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Data Category:		Geographic Area:		
Groundwater	Y	United States	~	GO

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- Full News

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

site_no list =

• 324000104073601

Minimum number of levels = 1

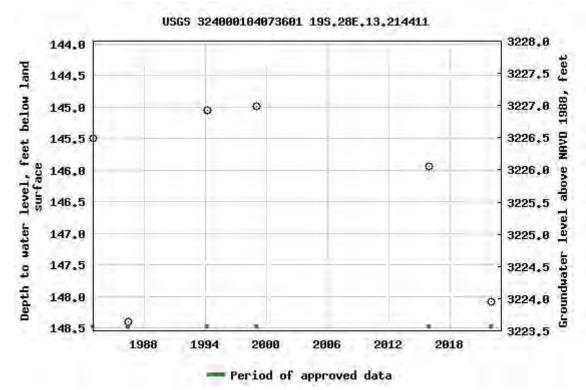
Save file of selected sites to local disk for future upload

USGS 324000104073601 19S.28E.13.214411

Available data for this site	Groundwater:	Field measurements	~	GO				
Eddy County, New Mexico								
Hydrologic Unit Code 1306	0011							
atitude 32°39'56.2", Longitude 104°07'35.9" NAD83								
Land-surface elevation 3,3	72 feet abo	ve NAVD88						
This well is completed in th	າe Other aq	uifers (N9999OT	HER]) national aquifer.				
This well is completed in th	າe Rustler F	ormation (312RS	LR)	local aquifer.				

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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Title: Groundwater for USA: Water Levels

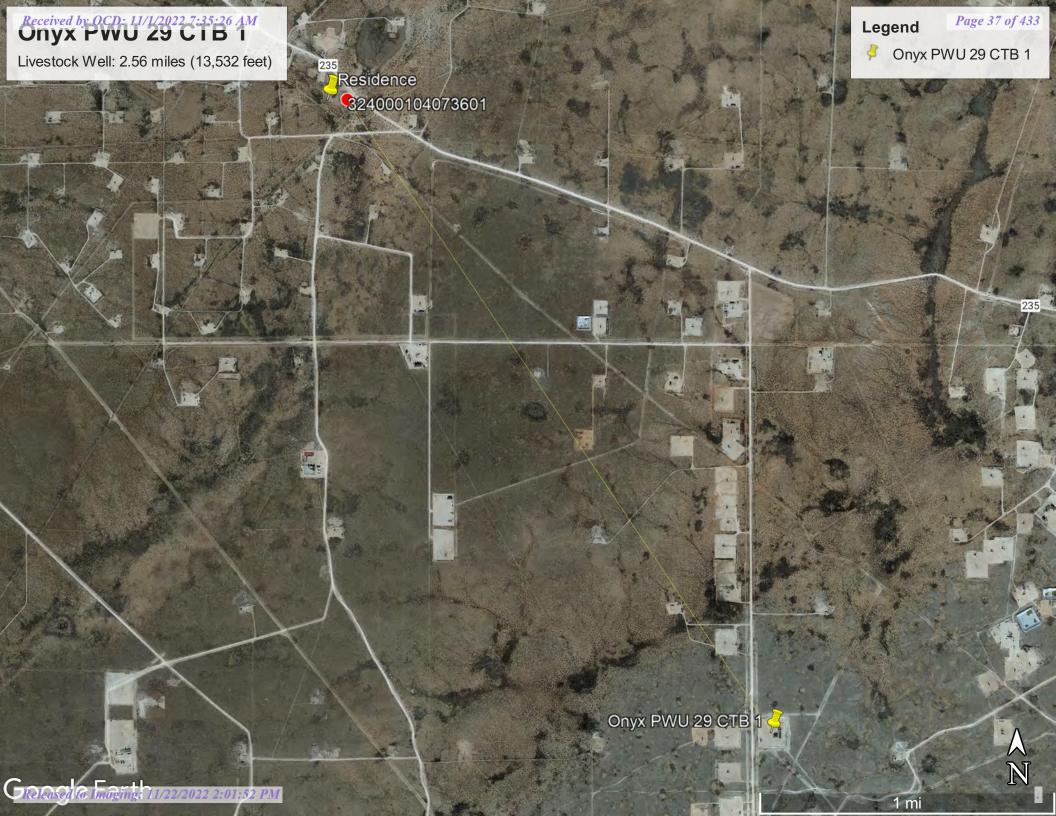
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

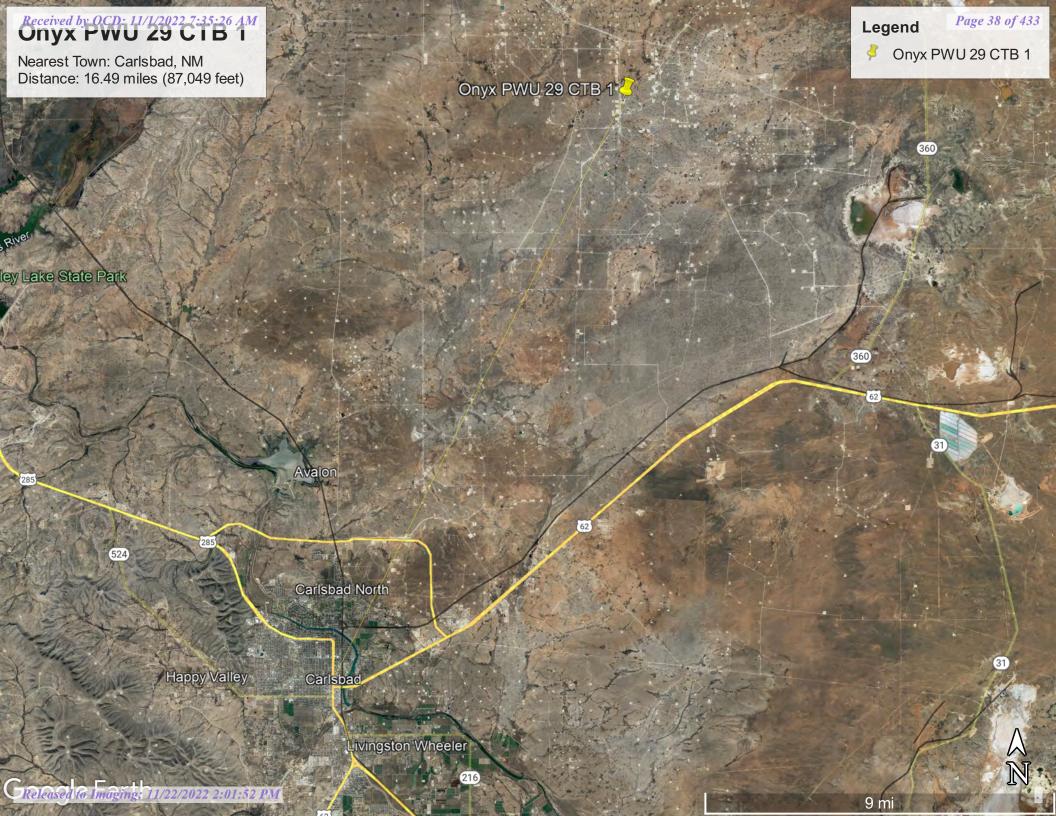
Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2022-05-17 12:23:40 EDT

0.56 0.46 nadww01









Onyx PWU 29 CTB 1 Wetlands



May 17, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

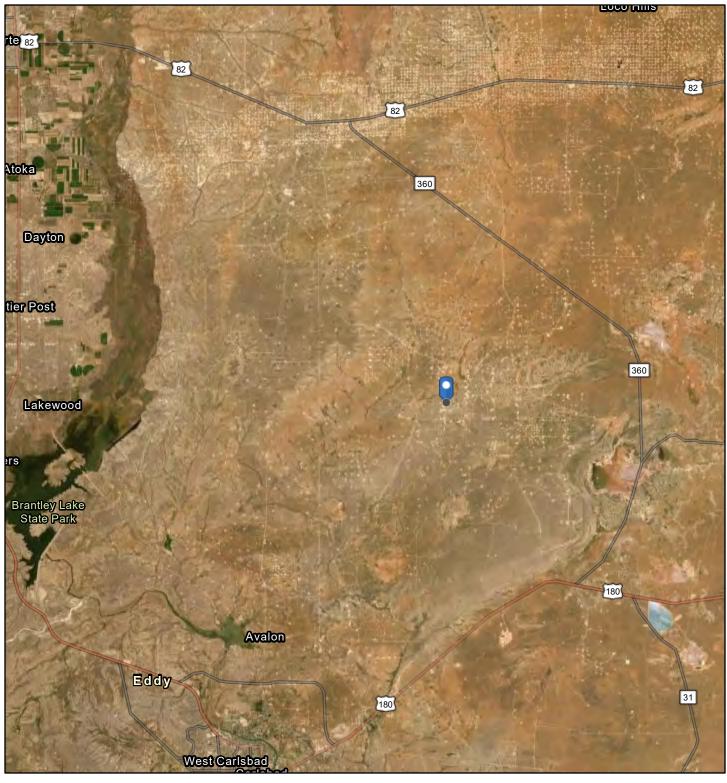
Lake

Riverine

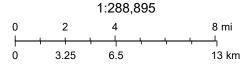
Other

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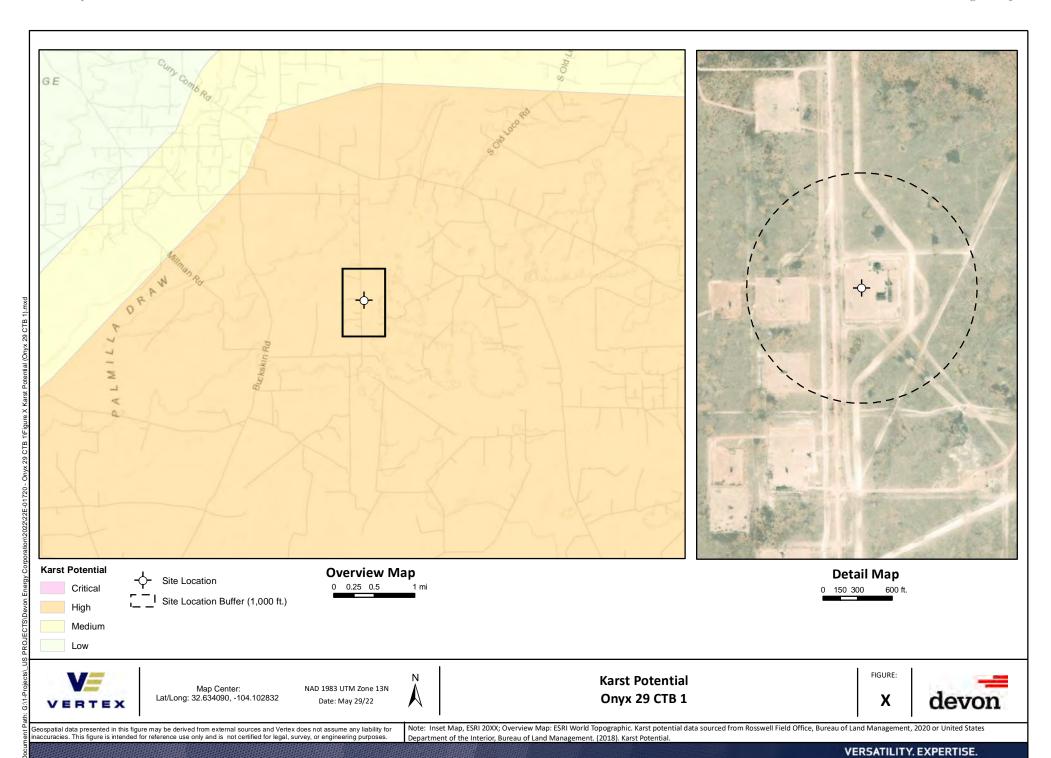
Coal Mines in New Mexico



5/17/2022, 10:37:29 AM



Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Sources: Esri, HERE, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community





Agriconal Flood Hazard Layer FIRMette AREA OF MINIMAL FLOOD HAZARD 35015C0625D eff.6/4/2010 Eddy County 350120

Legend
SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUNG
WIthout Base Flood Elevation (BFE) A

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drained areas of less than one square mile 20 7 With BFE or Depth zone AE, AO, AH, VE, ARO

SPECIAL FLOOD HAZARD AREAS

Future Conditions 1% Annual
Chance Flood Hazard Zone X

Area with Reduced Flood Risk due to
Levee. See Notes. Zone X

Area with Flood Risk due to Levee Zone W Future Conditions 1% Annual

OTHER AREAS OF FLOOD HAZARD

No screen Area of Minimal Flood Hazard Zone X **Effective LOMRs**

Area of Undetermined Flood Hazard Zone D

OTHER AREAS

- - - Channel, Culvert, or Storm Sewer STRUCTURES | 111111 Levee, Dike, or Floodwall

Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect 17.5

Base Flood Elevation Line (BFE) **Jurisdiction Boundary** Limit of Study mm 513 mm

Coastal Transect Baseline Profile Baseline

Hydrographic Feature

OTHER

Digital Data Available

No Digital Data Available Unmapped

MAP PANELS

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

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

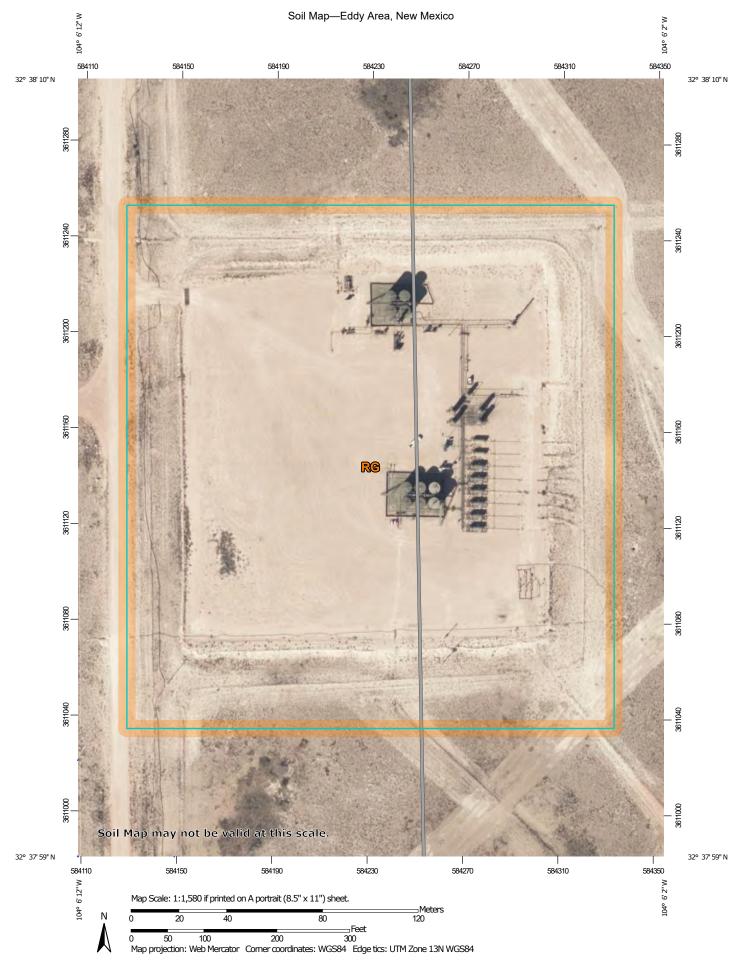
authoritative NFHL web services provided by FEMA. This map reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or The flood hazard information is derived directly from the was exported on 5/16/2022 at 9:54 PM and does not become superseded by new data over time.

become superseded by new data over time.

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

500

250



MAP LEGEND

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Δ

Water Features

Transportation

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

+ Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

MAP INFORMATION

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

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

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

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

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 17, Sep 12, 2021

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

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

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI					
RG	Reeves-Gypsum land complex, 0 to 3 percent slopes	11.1	100.0%					
Totals for Area of Interest		11.1	100.0%					

Eddy Area, New Mexico

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f Elevation: 1,250 to 5,000 feet

Mean annual precipitation: 10 to 25 inches Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 190 to 235 days

Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent

Gypsum land: 30 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Reeves

Setting

Landform: Ridges, plains, hills

Landform position (two-dimensional): Shoulder, backslope,

footslope, toeslope

Landform position (three-dimensional): Side slope, crest, nose

slope, head slope Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam H2 - 8 to 32 inches: clay loam

H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately low (0.00 to 0.06 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 25 percent

Gypsum, maximum content: 80 percent

Maximum salinity: Very slightly saline to moderately saline (2.0 to

8.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

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

Interpretive groups

Land capability classification (irrigated): 3s Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: B

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Description of Gypsum Land

Setting

Landform: Ridges, plains, hills

Landform position (two-dimensional): Shoulder, backslope,

footslope, toeslope

Landform position (three-dimensional): Side slope, crest, nose

slope, head slope Down-slope shape: Convex Across-slope shape: Linear

Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Minor Components

Largo

Percent of map unit: 5 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Cottonwood

Percent of map unit: 5 percent

Ecological site: R042XC033NM - Salty Bottomland

Hydric soil rating: No

Reagan

Percent of map unit: 5 percent

Ecological site: R042XC007NM - Loamy

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 17, Sep 12, 2021



Ecological site R042XC007NM Loamy

Accessed: 04/12/2022

General information



Figure 1. Mapped extent

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

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs on uplands landforms, mainly on hill slopes, ridges, plains, terraces and some fan remnants. Slopes range from 1 to 5 percent and average about 3 percent. Average annual precipitation is about 8 to 14 inches. Elevations range from 2,842 to 5,000 feet.

Table 2. Representative physiographic features

Landforms	(1) Plain (2) Terrace (3) Fan piedmont
Flooding frequency	None
Ponding frequency	None
Elevation	2,842–5,000 ft
Slope	0–5%
Aspect	E, S, W

Climatic features

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

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

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

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

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

Table 3. Representative climatic features

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

Influencing water features

This site is not influenced by wetland or streams.

Soil features

The soils of this site are deep to moderately deep. The moderately deep soils have either a petrocalcic, petrogypsic or gypsum horizon between 30 and 40 inches.

Surface textures are loam, silt loam, very fine sandy loam, or clay loam. Substratum textures are loam, silty clay loam, clay loam, or silt loams. Subsoil textures are silt loam, clay loam silty clay loam, gravelly loam, gravelly clay loam or very gravelly loam. Permeability is moderate to slow and the available water holding capacity is high to moderate. The Atoka, Reeves, Russler, Milner soils may have highr amounts of CaC03, ranging as high as 40 percent in the subsoil. Rock fragments range fro 5 to 50 percent in the subsoil. Reeves, Rusler, Milner, Holloman soils will have 40 to 80 percent gypsum in the underlying material.

Maximum and minimum values listed below represent the characteristic soils for this site.

Characteristic Soils:

Atoka (petrocalcic)

Bigetty

Reagan

Reakor

Reeves (gypsum)

Russler (gypsum)

Largo

Russler (gypsum)

Largo

Berino

Tinney

Midessa

Ratliff

Released to Imaging: 11/22/2022 2:01:52 PM

Holloman (gypsum) Milner (gypsum)

Table 4. Representative soil features

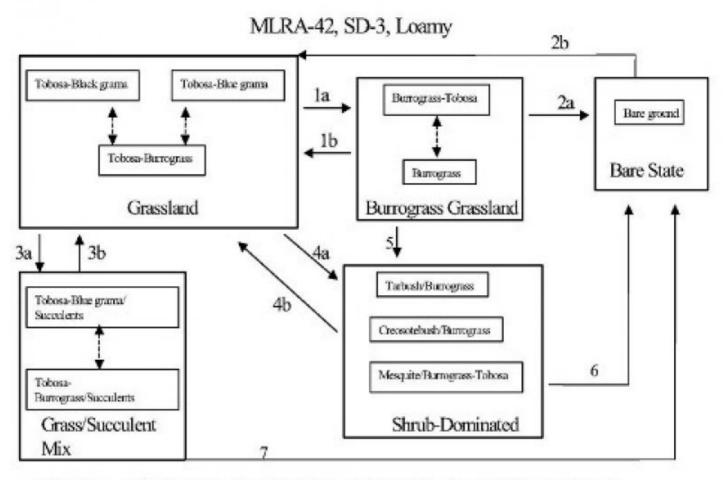
Surface texture	(1) Loam(2) Very fine sandy loam(3) Silt loam
Family particle size	(1) Loamy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to slow
Soil depth	30–72 in
Surface fragment cover <=3"	0–5%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–12 in
Calcium carbonate equivalent (0-40in)	0–10%
Electrical conductivity (0-40in)	0–8 mmhos/cm
Sodium adsorption ratio (0-40in)	0–6
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	0–5%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

Overview: The Loamy site is associated with the Gyp Upland ecological site with which it intergrades. There is a pronounced increase in alkali sacaton along this interface. The loamy site is also associated with the Gravelly and Shallow ecological sites from which it receives run-on water. The Draw site often dissects Loamy sites and is distinguished from the Loamy site by increased production or greater densities of woody species. The historic plant community has a grassland aspect, dominated by grasses with shrubs and half-shrubs sparse and evenly distributed. Tobosa, black grama and blue grama are the dominant species. Retrogression within this state is characterized by a decrease in black and blue grama and an increase in burrograss. Continuous overgrazing and drought can initiate a transition to a Burrograss- Grassland state. Continued reduction in grass cover and resulting infiltration problems may eventually effect a change to a Bare State, with very little or no remaining grass cover. Alternatively, creosotebush, tarbush or mesquite may expand or invade. Transitions back to a Grassland State from a Bare or Shrub-Dominated state are costly and may not be economically feasible. Decreased fire frequency may play a part in the transition to the Grass/Succulent Mix state with increased amounts of cholla and prickly pear.

State and transition model

Plant Communities and Transitional Pathways (diagram)



- Ia. Soil drying, overgrazing, drought, soil surface sealing. Ib. Restore natural overland flow, increase infiltration, prescribed grazing.
- Severe reduction in cover, soil surface sealing, decreased infiltration, erosion. 2b. Restore hydrology, break up physical crust, range seeding, prescribed grazing.
- 3a. Lack of fire, overgrazing, hall storms or other physical disturbance, drought, 3b. Prescribed fire, brush control, prescribed grazing.
- 4a. Seed dispersal of shrubs, persistent loss of grass cover, competition by shrubs, lack of fire. 4b. Brush control, range seeding -dependent on amount of grass (seed bank) remaining.
- 5. Loss of grass cover, seed dispersal of shrubs, competition by shrubs.
- 6. & 7. Brush control with continued loss of grass cover, soil sealing, erosion.

Figure 4.

State 1 Historic Climax Plant Community

Community 1.1 Historic Climax Plant Community

State Containing Historic Climax Plant Community Grassland:

The historic plant community has a grassland aspect, dominated by grasses with shrubs and half-shrubs sparse and evenly distributed. Black grama, blue grama, and tobosa are the dominant grass species. There are a variety of

perennial forbs and their production varies widely by season and year. Globemallow, verbena, groundsels, croton and filaree are forbs commonly found on this site. Fourwing saltbush and winterfat are two of the more palatable shrubs. The Loamy ecological site encompasses a wide variety of soils, with surface textures ranging from sandy loams to clay loams. Soil depths range from shallow to very deep and can include sub surface features such as calcic, petrocalcic, and gypsic horizons. These variations cause differences in plant community composition and dynamics. Black grama is found at highest densities on coarser textured sandy loams, with blue grama preferring finer textured loam and silt loam, and tobosa favoring lower landscape positions and loam to clay loam surface textures. Burrograss may often be the dominant grass species on silty soils, perhaps in part due to the seedlings ability to auger into and establish on physically crusted soils. Gypsum influenced soils typically have greater amounts of tobosa, burrograss, and ephedra. There is greater representation of sideoats and vine mesquite within the tobosa-blue grama community. Retrogression under continuous heavy grazing results in a decrease of black grama, blue grama, sideoats grama, plains bristlegrass, bush muhly, cane bluestem, vine mesquite, winterfat, and fourwing saltbush. Species such as burrograss, threeawns, sand dropseed, sand muhly, and broom snakeweed increase under continuous heavy grazing or prolonged periods of drought. Under continued retrogression burrograss can completely dominate the site. Creosotebush, tarbush, and mesquite, can also dominate. Cholla and prickly pear can increase on areas that are disturbed or overgrazed.

Diagnosis: Tobosa, black grama, and blue grama are the dominant species. Grass cover is uniformly distributed with few large bare areas. Shrubs are sparse and evenly distributed. Slopes range from level to gently sloping and usually display limited evidence of active rills and gully formation if plant cover remains intact. Litter movement associated with overland flow is limited to smaller size class litter and short distances.

Other shrubs include: yucca, mesquite, tarbush, cholla and creosote bush.

Other forbs include: desert holly, scorpionweed, bladderpod, flax, nama, fleabane, Indianwheat, Indian blanket flower, groundcherry, deerstongue, and rayless goldenrod.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	
Grass/Grasslike	585	833	1080
Forb	39	55	72
Shrub/Vine	26	37	48
Total	650	925	1200

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	15-30%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	25-30%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	40-50%

Figure 6. Plant community growth curve (percent production by month).

NM2807, R042XC007NM Loamy HCPC. R042XC007NM Loamy HCPC Warm Season Plant Community..

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	0	5	10	10	25	30	15	5	0	0

State 2 Burrograss-Grassland

Community 2.1 Burrograss-Grassland

Burrograss-Grassland: Changes in hydrology resulting in decreased available soil moisture, reduces grass cover and increases bare ground. Burrograss is the dominant grass. Tobosa cover is variable and can range from sizeable areas to small patches occupying only depressions or the lowest and wettest positions within the site. Threeawns, ear muhly, sand muhly, and fluffgrass occur at increased densities compared to the grassland state. Shrub densities may increase especially mesquite, creosotebush or tarbush. Retrogression within this state is characterized by a further decrease in grass cover and increased bare ground. Further deterioration of this site can result in the transition to a bare state or becoming shrub dominated.

Diagnosis: Burrograss is the dominant species. Grass cover is no longer uniformly distributed, instead tending to be patchy with large areas of bare ground present. Physical crusts are present in bare areas reducing infiltration and suppressing seedling establishment by any grass species other than burrograss.

Transition to Burrograss-Grassland (1a): Transitions from grassland to a burrograss-grassland state may occur due to changes in hydrology. Gullies, roads or obstructions that alter natural water flow patterns may cause this transition. Changes in surface hydrology may also occur due to overgrazing or drought. The reduction in grass cover promotes increased soil physical crusts and reduces infiltration. 5

Key indicators of approach to transition:

- ? Diversion of overland flow resulting in decreased soil moisture.
- ? Increase in amount of burrograss cover
- ? Reduction in grass cover and increase in size and frequency of bare patches.
- ? Formation of physical crusts—indicating reduced infiltration.
- ? Evidence of litter movement—indicating loss or redistribution of organic matter.

Transition back to Grassland (1b) The natural hydrology of the site must be returned. Culverts, turnouts, or rerouting roads may help re-establish natural overland flow, if roads or trails have altered the hydrology. Erosion control structures or shaping and filling gullies may help regain natural flow patterns and establish vegetation if the flow has been channeled. Breaking up physical crusts by soil disturbance may promote infiltration and seedling emergence. Allow natural revegetation to take place. Prescribed grazing will help ensure proper forage utilization and reduce grass loss due to grazing.

State 3 Bare State

Community 3.1 Bare State

Bare State: Extremely low ground cover, soil degradation and erosion characterize this state. Very little vegetation remains. Burrograss is the dominant grass and cover is extremely patchy. Physical soil crusts are extensive. Erosion and resource depletion increase as site degrades.

Diagnosis: Very little cover remains. Erosion is evident by soil sealing, water flow patterns, pedestals or terracettes. Rills and gullies may be present and active.

Transition to Bare State (2a): Extended drought, continuous heavy grazing, or other disturbance that severely

depletes grass cover can effect this transition. As grass cover decreases, sheet flow and erosion increase, and physical soil crusts form, thereby further reducing infiltration.

Key indicators of approach to transition:

- ? Continued reduction in grass cover.
- ? Increased soil surface sealing.
- ? Increased erosion.
- ? Reduced aggregate stability in bare areas.

Transition back to Grassland (2b) Restore the hydrology, see (1a). With the extent of grass loss range seeding may be necessary. Utilizing livestock or mechanical means to break up the physical crusts may increase infiltration and aid seedling establishment. Prescribed grazing will help ensure adequate deferment period following seeding, and proper forage utilization once the grass stand is well established. The degree to which this site is capable of recovery depends on the restoration of hydrology, extent of degradation to soil resources, and adequate rainfall necessary to establish grasses.

State 4 Grass/Succulent Mix

Community 4.1 Grass/Succulent Mix

Grass / Succulent Mix: Increased representations of succulents characterize this site. Increased densities of cholla or pricklypear is recognized as a management concern, but their impact on grass production is unclear. Light to medium cholla or prickly pear infestation doesn't seem to greatly reduce grass production, however it limits access to palatable grasses and interferes with livestock movement and handling. Tobosa and blue grama are the dominant species on this site. Retrogression within this site is characterized by a decrease in blue grama and an increase in succulents, tobosa and burrograss.

Diagnosis: Cholla or prickly pear is found at increased densities. Grass cover is variable ranging from uniformly distributed to patchy with frequent areas of bare ground present. Tobosa or blue grama is the dominant grass species.

Transition to Grass/Succulent Mix (3a): If fire was historically a part of desert grassland ecosystem and played a role in suppressing seedlings of shrubs and succulents, then fire suppression may favor the increase of succulents.1 Heavy grazing by livestock or other physical disturbances may help disseminate seed and increase the establishment of succulents. Areas historically overgrazed by sheep are sometimes associated with higher densities of Succulents. Intense hailstorms can spread pricklypear by breaking off joints causing new plants to take root.3 During severe drought perennial grass cover can decline significantly, leaving resources available for use by more drought tolerant succulents. Cholla and pricklypear are both adapted to and favored by drought due to the ability of their shallow, wide spreading root systems to absorb and store water.4

Key indicators of approach to transition:

- ? Decrease or change in distribution of grass cover.
- ? Increase in amount of succulent seedlings.
- ? Increased cover of succulents.

Transition back to Grassland (3b) Fire is an effective means of controlling cholla and prickly pear if adequate grass cover remains to carry fire.2 Cholla greater than two feet tall or pricklypear with a large amount of pads (>15-20) are harder to kill. Chemical control is effective in controlling prickly pear and cholla; apply when growth starts in May. Hand grubbing is also effective if cholla or pricklypear is severed 2-4 inches below ground and care is taken not to let broken joints or pads take root. Stacking and burning piles and grubbing during winter or drought help keeps broken joints and pads from rooting. Prescribed grazing will help ensure proper forage utilization and sustain grass cover.

State 5 Shrub Dominated

Released to Imaging: 11/22/2022 2:01:52 PM

Community 5.1 Shrub Dominated

Shrub Dominated: Increased shrub cover characterizes this state. Mesquite, creosotebush, and/or tarbush are the dominant shrub species. Burrograss or tobosa is the dominant grass species. Grass cover is decreased, typically patchy with large bare areas present; however, sometimes grass cover can remain relatively high for extended periods when associated with light to moderate infestations of mesquite. Variations in soil characteristics play a part in determining which shrub species increase. Mesquite is well adapted to a wide range of soil types, but increases more often on deep soils low in carbonates, that have a sandy surface overlying finer textured soils. Tarbush prefers finer textured, calcareous soils, usually in lower positions that receive some extra water. Creosotebush is less tolerant of fine textured soils, preferring sandy, calcareous soils that have some gravel. Creosotebush also does well on soils that are shallow over caliche. Retrogression within this state is characterized by a decrease in tobosa, and an increase in burrograss. As the site continues to degrade shrub cover continues to increase and grass cover is severely reduced.

Diagnosis: Mesquite, Creosotebush, and/or tarbush are the dominant shrubs. Blue grama and black grama cover is low or absent. Burrograss or tobosa are the dominant grasses. Typically grass cover is patchy with large interconnected bare areas present. Physical soil crusts are present, especially on silt loam surface soils.

Transition to Shrub Dominated (4a): Wildlife and livestock consume and disperse mesquite seeds. Flood events may wash creosote or tarbush seeds off adjacent gravelly sites onto the loamy site and supply adequate moisture for germination. Persistent loss of grass cover due to overgrazing or drought can cause large bare patches, providing competition free areas for shrub seedling establishment. As shrub cover increases, competition for soil resources, especially water, becomes a major factor in further reducing grass cover. Reduction of fire, due to either fire suppression policy or loss of adequate fine fuels may increase the probability of shrub encroachment. Increased soil surface physical crusts and associated decreased infiltration, may prevent the establishment of grass seedlings.

Transition to Shrub Dominated (5): The dispersal of creosotebush, tarbush or mesquite seed, combined with loss of grass cover and resource competition by shrubs may cause this transition.

Key indicators of approach to transition:

- ? Decreased grass and litter cover.
- ? Increased bare patch size.
- ? Increased physical soil crusts.
- ? Increased amount of mesquite, creosotebush, or tarbush seedlings.
- ? Increased shrub cover.

Transition back to Grassland (4b) Brush control will be necessary to remove shrubs and eliminate competition for resources necessary for grass establishment or reproduction. Seeding may be necessary on those sites where desired grass species are absent or very limited. Pitting and seeding may increase the chances of successful grass establishment. Prescribed grazing will help ensure adequate time is elapsed before grazing seeded area is allowed and proper forage utilization following seeding establishment.

Transition to Bare State (6): If grass cover on the shrub-dominated state is severely limited and shrubs are removed a bare state may result. This transition will depend on amount of grasses or seed remaining, whether site is seeded, or if seeding is successful.

Transition to Bare State (7): Removal of succulents and continued overgrazing or drought may cause loss of remaining grasses and erosion. Soil surface physical crusting may also be an important factor in inhibiting grass seedling establishment

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
	/O!!!				

Gras	ss/Grassiike				
1	Warm Season			278–324	
	tobosagrass	PLMU3	Pleuraphis mutica	278–324	_
2	Warm Season			9–46	
	burrograss	SCBR2	Scleropogon brevifolius	9–46	_
3	Warm Season			231–278	
	black grama	BOER4	Bouteloua eriopoda	231–278	_
	blue grama	BOGR2	Bouteloua gracilis	231–278	_
4	Warm Season			28–46	
	sideoats grama	BOCU	Bouteloua curtipendula	28–46	_
5	Warm Season			46–93	
	bush muhly	MUPO2	Muhlenbergia porteri	46–93	_
	plains bristlegrass	SEVU2	Setaria vulpiseta	46–93	_
6	Warm Season			9–28	
	Arizona cottontop	DICA8	Digitaria californica	9–28	-
7	Warm Season	•		46–93	
	threeawn	ARIST	Aristida	46–93	_
	muhly	MUHLE	Muhlenbergia	46–93	_
	sand dropseed	SPCR	Sporobolus cryptandrus	46–93	_
8	Warm Season	•		28–46	
	Graminoid (grass or grass-like)	2GRAM	Graminoid (grass or grass-like)	28–46	_
Shru	ıb/Vine			- '	
9	Shrub			9–28	
	fourwing saltbush	ATCA2	Atriplex canescens	9–28	_
	jointfir	EPHED	Ephedra	9–28	_
	winterfat	KRLA2	Krascheninnikovia lanata	9–28	_
	cane bluestem	BOBA3	Bothriochloa barbinodis	5–24	-
	Arizona cottontop	DICA8	Digitaria californica	5–24	_
	plains bristlegrass	SEVU2	Setaria vulpiseta	5–24	_
10	Shrub	•		9–28	
	javelina bush	COER5	Condalia ericoides	9–28	_
	broom snakeweed	GUSA2	Gutierrezia sarothrae	9–28	_
	Grass, annual	2GA	Grass, annual	5–15	_
11	Shrubs	•		9–28	
	Shrub (>.5m)	2SHRUB	Shrub (>.5m)	9–28	_
Forb)	•			
12	Forb			9–46	
	threadleaf ragwort	SEFLF	Senecio flaccidus var. flaccidus	9–46	_
	globemallow	SPHAE	Sphaeralcea	9–46	-
	verbena	VEPO4	Verbena polystachya	9–46	_
	broom snakeweed	GUSA2	Gutierrezia sarothrae	5–15	-
	pricklypear	OPUNT	Opuntia	5–15	-
13	Forb	1	1	9–28	
	croton	СКОТО	Croton	9–28	
	-	1	ļ		

	woolly groundsel	PACA15	Packera cana	9–28	-
14	Forb			9–28	
	Goodding's tansyaster	MAPIG2	Machaeranthera pinnatifida ssp. gooddingii var. gooddingii	9–28	_
	woolly paperflower	PSTA	Psilostrophe tagetina	9–28	_
15	Forb			9–28	
	redstem stork's bill	ERCI6	Erodium cicutarium	9–28	_
	Texas stork's bill	ERTE13	Erodium texanum	9–28	_
16	Forb			9–28	
	Forb (herbaceous, not grass nor grass-like)	2FORB	Forb (herbaceous, not grass nor grass-like)	9–28	_

Animal community

This site provides habitats which support a resident animal community that is characterized by pronghorn antelope, black-tailed jackrabbit, black tailed prairie dog, yellow-faced pocket gopher, banner-tailed kangaroo rat, hispid cotton rat, swift fox, burrowing owl, horned lark, mockingbird, meadowlark, mourning dove, scaled quail, Great Plains toad, plains spadefoot toad, prairie rattlesnake and western coachwhip shake.

Hydrological functions

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

Hydrologic Interpretations

Soil Series Hydrologic Group

Atoka C

Bigetty B

Ratliff B

Reyab B

Holloman B

Largo B

Holloman B

Bigetty B

Berino B

Reagan B

Reakor B

Reeves B

Russler C

Recreational uses

This site offers limited potential for hiking, horseback riding, nature observation and photography. Game bird, antelope and predator hunting are also limited.

Wood products

This site has no potential for wood products

Other products

This site is suitable for grazing by all kinds and classes of livestock, during all seasons of the year. Under retrogression, such plants as black grama, blue grama, sideoats grama, bush muhly, plains bristlegrass, Arizona cottontop, fourwing saltbush and winterfat decrease and there is an increase in burrograss, threeawns, sand dropseed, muhlys, broom snakeweed and javilinabush. Under continued retrogression, burrograss can completely

dominate the site. Creosotebush, mesquite, and tarbush can also dominate. Grazing management alone will not improve the site in the above situation. This site is well suited to a system of management that rotates the season of use.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index Ac/AUM 100 - 76 3.0 - 4.2 75 - 51 4.1 - 5.5 50 - 26 5.3 - 7.0 25 - 0 7.1 +

Inventory data references

Other References:

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

Other references

Literature References:

- 1. Brooks, M.L., AND D.A. Pyke. 2001. Invasive plants and fire in the deserts of North America. Pages 1–14 in K.E.M. Galley and T.P. Wilson (eds.). Proceedings of the Invasive Species Workshop: the Role of Fire in the Control and Spread of Invasive Species.
- 2. Bunting, S.C., H.A. Wright, and L.F. Neuenschwander. 1980. Long-term effects of fire on cactus in the Southern Mixed Prairie of Texas. J. Range. Manage. 33: 85-88.
- 3. Laycock, W.A. 1982. Hail as an ecological factor in the increase of prickly pear cactus. p. 359-361. In: J.A. Smith and V.W. Hays (eds.) Proc. XIV Int. Grassland Congr. Westview Press, Boulder, Colo.
- 4. Vallentine, J.F. 1989. Range Developments and Improvements. 3rd Edition. Academic Press. San Diego, California.
- 5. U.S. Department of Agriculture, Natural Resources Conservation Service. 2001. Soil Quality Information Sheet. Rangeland Soil Quality—Physical and Biological Soil Crusts. Rangeland Sheet 6, [Online]. Available: http://www.statlab.iastate.edu/survey/SQI/range.html

Contributors

David Trujillo Don Sylvester

Rangeland health reference sheet

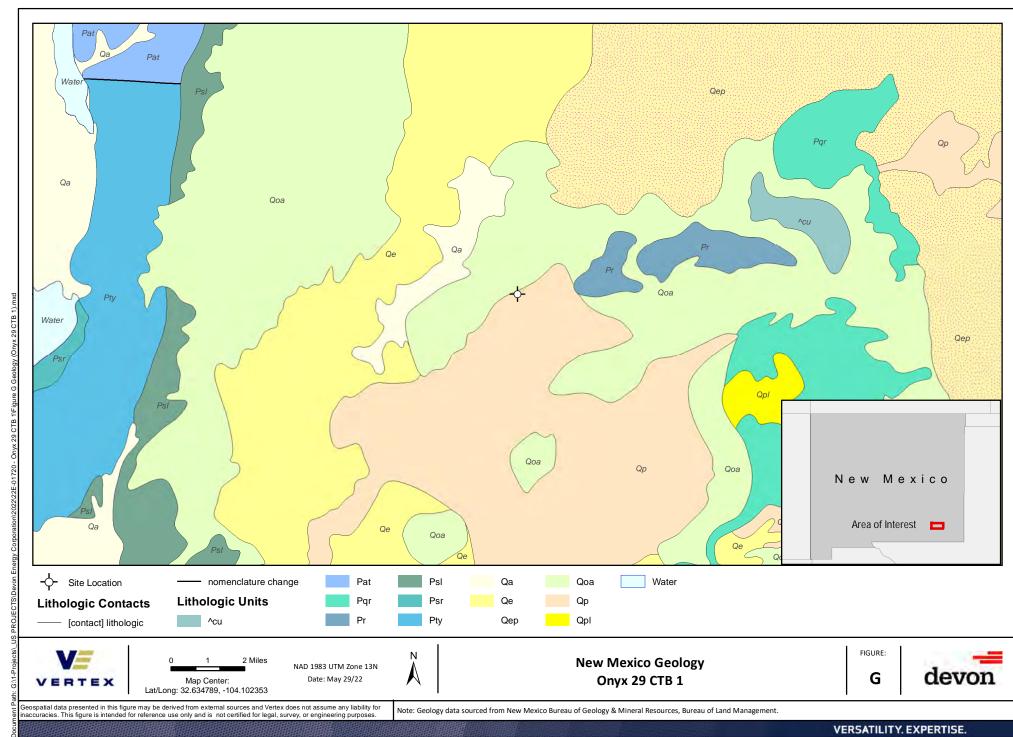
Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative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

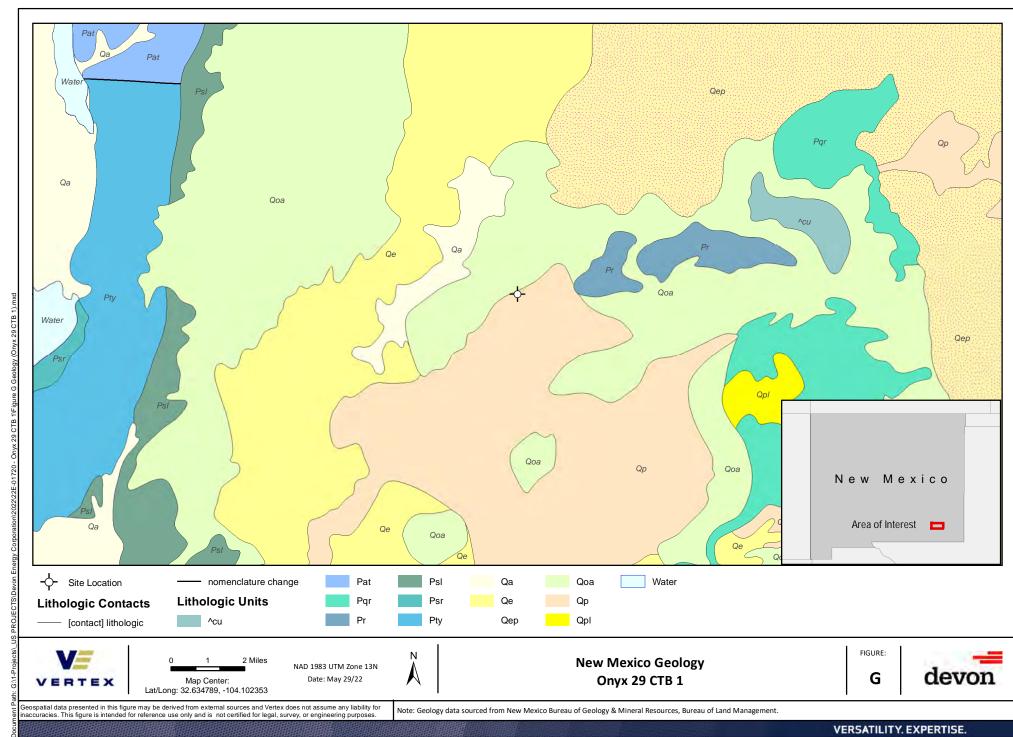
Annual Production

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Inc	licators
1.	Number and extent of rills:
2.	Presence of water flow patterns:
3.	Number and height of erosional pedestals or terracettes:
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):
5.	Number of gullies and erosion associated with gullies:
6.	Extent of wind scoured, blowouts and/or depositional areas:
7.	Amount of litter movement (describe size and distance expected to travel):
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):
0.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:
1.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):

12.	Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):					
	Dominant:					
	Sub-dominant:					
	Other:					
	Additional:					
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):					
14.	Average percent litter cover (%) and depth (in):					
15.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production):					
16.	Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:					
17.	Perennial plant reproductive capability:					





ATTACHMENT 4



Client:	Devon Energy Corporation	Inspection Date:	5/24/2022
Site Location Name:	Onyx 29 CTB 1	Report Run Date:	5/24/2022 10:13 PM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176	_	
Unique Project ID		— Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	5/24/2022 8:20 AM		
Departed Site	5/24/2022 3:00 PM		

Field Notes

- 8:41 Arrived on site to delineate release near the separators (nAPP2116441032)
- 11:34 Collected BH22-01 through BH22-12 at surface and 2' for horizontal and vertical delineation.
- **11:35** BH22-02, BH22-03, BH22-06, BH22-08, and BH22-10 are above criteria at 2' and require further vertical delineation. BH22-02, BH22-10, and BH22-12 need to be stepped out.
- **13:58** BH22-02 and BH22-10 are vertically delineated at 4'.
 BH22-03 and BH22-08 hit refusal at 5'. BH22-08 is vertically delineated there.
 BH22-06 is vertically delineated at 6'

Next Steps & Recommendations

1 Continue delineation tomorrow



Site Photos

Viewing Direction: Northwest



Release area

Viewing Direction: Northeast



Release area

Viewing Direction: Northeast



Release area

Viewing Direction: Northeast



Sample area for BH22-01





Sample area for BH22-02 through BH22-04



Sample area for BH22-05 through BH22-07



Sample area for BH22-08



Sample area for BH22-09 through BH22-11





Sample area for BH22-12



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:



Client:	Devon Energy Corporation	Inspection Date:	8/15/2022			
Site Location Name:	Onyx 29 CTB 1	Report Run Date:	8/15/2022 10:06 PM			
Client Contact Name:	Wes Matthews	API #:				
Client Contact Phone #:	(575) 748-0176	_				
Unique Project ID		– Project Owner:				
Project Reference #		Project Manager:				
Summary of Times						
Arrived at Site	8/15/2022 8:15 AM					
Departed Site	8/15/2022 2:30 PM					

Field Notes

- 11:21 Arrived on site to continue excavation and confirmation sampling.
- **11:22** Collected BES22-15 through BES22-22 and WES22-26 through WES22-32 on the west trench. All are clean on all field screening and will be sent to lab for analysis.
- **11:47** Contractors are beginning to connect the excavations where the underground lines are. They are marking 2' away with the excavator. The rest will need to be done by hand
- 12:25 Brice with Devon was on site earlier.
 - We discussed how to address the wall against the separator that is still hot. He said it was okay to scratch at it by hand when the hand crew is able to get out here and get more samples.
- **12:26** Collected WES22-33 and WES22-34 at the west side of the 6' excavation near the underground water line. Samples are clean on all field screening at 2' and 4'
- 12:29 All clean samples will be sent to lab for analysis
- 13:57 BES22-14 was collected at 8'. Clean on all field screening.

Next Steps & Recommendations

1 Send samples to lab for analysis





Site Photos

Viewing Direction: Southwest



Sample area for BES22-15 through BES22-18

Viewing Direction: East



Sample area for BES22-14

Viewing Direction: Northwest



Sample area for WES22-33 and WES22-34

Viewing Direction: South



Excavation has Gina up to 2' away from the underground water line. The rest will be done by hand





Sample area for BES22-19 through BES22-20



Sample area for BES22-21 through BES22-22



Sample area for WES22-29



Sample area for WES22-31 through WES22-32





Sample area for WES22-30



Sample area for WES22-26 through WES22-28



Underground line is being marked 2' away to excavate



Marked 2' away from the underground line per Chad's instruction



Daily Site Visit Signature

Inspector: Chance Dixon

 \bigcirc

Signature:

Signature



Client:	Devon Energy Corporation	Inspection Date:	9/8/2022
Site Location Name:	Onyx 29 CTB 1	Report Run Date:	9/8/2022 5:16 PM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176	_	
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	9/8/2022 8:45 AM		
Departed Site	9/8/2022 10:00 AM		

Field Notes

8:53 Arrived on site to record backfill for phase 1.

8:53 Phase 1 is completely backfilled and should be ready for closure.

Next Steps & Recommendations

1 Complete closure report and submit to client



Site Photos

Viewing Direction: Northeast



Phase 1 backfilled. Southwest side

Viewing Direction: Northeast



Hand excavation of phase 1 between the oil tanks and separator backfilled

Viewing Direction: North



Middle of phase 1 backfilled

Viewing Direction: East



Hand excavation backfilled









East side of phase 1 backfilled



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:



Client:	Devon Energy Corporation	Inspection Date:	8/29/2022
Site Location Name:	Onyx 29 CTB 1	Report Run Date:	8/29/2022 9:06 PM
Client Contact Name:	Wes Matthews	_ API #:	
Client Contact Phone #:	(575) 748-0176	_	
Unique Project ID		– Project Owner:	
Project Reference #		– Project Manager:	
		Summary of	Times
Arrived at Site	8/29/2022 9:30 AM		
Departed Site	8/29/2022 1:30 PM		
		Field Not	25

Field Notes

- 11:40 Arrived on site to begin confirmation sampling for phase 2
- **11:41** Collected BES22-01 through BES22-03 and WES22-01 through WES22-08 in the 1' hand excavation around the heater treater. All were clean on all field screening and will be sent to lab.
- **11:42** BES22-03 and WES22-05 through WES22-08 were collected in the small 4' excavation that was hot during delineation.

Next Steps & Recommendations

1 Continue confirmation tomorrow when the excavation is further



Site Photos

Viewing Direction: Northeast



Sample area for WES22-01 and WES22-02 under pipelines

Viewing Direction: Northeast

Disportptive Photo - 2

Sample area for WES22-03

Viewing Direction: Southeast



Sample area for WES22-04

Viewing Direction: Northeast



Sample area for BES22-01





Sample area for BES22-02



Sample area for BES22-03 and WES22-05 through WES22-08



Current excavation and sample area



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:



Client:	Devon Energy Corporation	Inspection Date:	8/30/2022
Site Location Name:	Onyx 29 CTB 1	Report Run Date:	8/30/2022 10:32 PM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176	_	
Unique Project ID		Project Owner:	
Project Reference #		- Project Manager: -	
		Summary of	Times
Arrived at Site	8/30/2022 10:00 AM		
Departed Site	8/30/2022 3:00 PM		

Field Notes

- **12:56** Arrived on site to continue confirmation for phase 2.
- 10:21 Operator is still working to excavate the marked area. Will wait to grab samples when he is further ahead and I can get in safely
- **11:35** Another 480v line was discovered during excavation.

It was just west of the lines that were marked. This one was not marked. It was not struck, just uncovered. One call is up to date and Devon rep has been notified.

Line is sleeved with 3" schedule 80 PVC

- 13:33 Brice with Devon is on site to check the status of the excavation
- **13:37** Collected WES22-09 through WES22-12 and BES22-04 through BES22-07 in the 2' excavation west of the heater treater. All except BES22-04 are clean on all field screening. It will be excavated down to 4'
- 13:45 All clean samples have been jarred and put on ice to send to lab

Next Steps & Recommendations

1 Continue excavation and confirmation sampling tomorrow



Site Photos



Electric line discovered



Sample area for BES22-04 through BES22-07



Electric line discovered



Sample area for BES22-04 to be excavated down





Sample area for WES22-10 and WES22-12



Sample area for WES22-09 and WES22-11



Excavation has been fenced in and will be closed at the end of the day



Current excavation



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:



Client:	Devon Energy Corporation	Inspection Date:	8/31/2022
Site Location Name:	Onyx 29 CTB 1	- Report Run Date:	8/31/2022 8:17 PM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176	_	
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	8/31/2022 8:50 AM		
Departed Site	8/31/2022 12:00 PM		

Field Notes

- 10:30 Arrived on site to continue confirmation sampling.
- 10:31 Collected WES22-13 through WES22-17 and BES22-08 through BES22-11 in the trench trending to the west. All are clean on all field screening and ready to send to lab
- 10:32 Collected BES22-04 at 4', WES22-09, and WES22-18 through WES22-21 for the walls inside the excavation near the heater treater. This was to ensure contaminants did not migrate from BES22-04. All samples are clean on all field screening.

Next Steps & Recommendations

1 Send samples to lab for analysis



Site Photos

Viewing Direction: Northeast



Sample area for BES22-04, WES22-09, and WES22-18 through WES22-20

Viewing Direction: East

Sample area for WES22-21

Viewing Direction: West



Sample area for BES22-08 through BES22-11

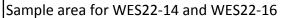
Viewing Direction: Northwest



Sample area for WES22-13 and WES22-15









Sample area for WES22-17



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:



Client:	Devon Energy Corporation	Inspection Date:	9/8/2022
Site Location Name:	Onyx 29 CTB 1	Report Run Date:	9/8/2022 5:15 PM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176	_	
Unique Project ID		Project Owner:	
Project Reference #		- Project Manager: -	
		Summary of	Times
Arrived at Site	9/8/2022 8:45 AM		
Departed Site	9/8/2022 10:00 AM		

Field Notes

9:16 On site to record backfill for phase 2

9:16 Site is completely backfilled and ready for closure

Next Steps & Recommendations

1 Complete closure report and submit to client



Site Photos





Hand excavation around heater treaters backfilled

Viewing Direction: North

Descriptive Photo-2:
Verying Direction: North
Descriptive Photo-1:
Descriptive Photo-2:
Verying Direction: North
Descriptive Photo-2:
Verying Direction: North
Descriptive Photo-2:
Verying Direction: North
Descriptive Photo-3:
Verying Direction: North
Descriptive Photo-4:
Verying Direction: North
Verying Direction: Nort

East side of heater treaters backfilled

Viewing Direction: Southeast



Hand excavation around heater treaters completely backfilled

Viewing Direction: West



Phase 2 backfilled





Phase 2 backfilled



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

ATTACHMENT 5



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Onyx 29 CTB 1

4 messages

Dhugal Hanton

Dhugal Hanton

To: "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@state.nm.us>
Co: dale.woodall@dvn.com

Mon, Aug 8, 2022 at 1:36 PM

All,

Please accept this email as notification that Vertex Resource Services has scheduled a sampling event to be conducted at the following releases:

nAPP2116441032 ONYX 29 CTB 1 and nAPP2213024415 ONYX 29 CTB 1

On Wednesday, August 9, 2022, at approximately 2:00 p.m., Chance Dixon will be on-site to conduct confirmation sampling. The sampling will continue through Friday August 19, 2022. He can be reached at 575-988-1472. If you need directions to the site, please do not hesitate to contact him. If you have any questions regarding this notification, please call Kent Stallings at 346-814-1413.

Thank you,

Kent Stallings P.G.

Project Manager
Vertex Resource Services Inc.
3101 Boyd Drive,
Carlsbad, NM 88220

P 575.725.5001 C 346.814.1413

 Fri, Aug 19, 2022 at 8:58 AM

All,

Vertex respectfully requests that confirmation sampling for this location be extended to Friday, August 26, 2022.

If you have any questions or concerns regarding this notification, please call Kent Stallings at 346-814-1413.

Thank you,

Chance Dixon B.Sc.

Senior Environmental Technician

Vertex Resource Services Inc. 3101 Boyd Drive, Carlsbad, NM 88220

C 575.988.1472

[Quoted text hidden]

Nobui, Jennifer, EMNRD < Jennifer. Nobui@state.nm.us>

Fri, Aug 19, 2022 at 9:06 AM

To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Cc: "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "Hamlet, Robert, EMNRD" <Robert.Hamlet@state.nm.us>, "Harimon, Jocelyn, EMNRD" < Jocelyn. Harimon@state.nm.us>

Chance

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

Thanks,

Jennifer Nobui

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Friday, August 19, 2022 8:58 AM

To: Nobui, Jennifer, EMNRD < Jennifer. Nobui@state.nm.us>

Subject: [EXTERNAL] Re: Onyx 29 CTB 1

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

[Quoted text hidden]

Dhugal Hanton <vertexresourcegroupusa@gmail.com> To: "Nobui, Jennifer, EMNRD" < Jennifer.Nobui@state.nm.us>

Fri, Aug 26, 2022 at 7:38 AM

AII,

Vertex respectfully requests that confirmation sampling for both of these releases be extended to Friday, September 2, 2022. If you have any questions or concerns, please do not hesitate to contact us.

Thank you,

Chance Dixon B.Sc.

Senior Environmental Technician

Vertex Resource Services Inc. 3101 Boyd Drive, Carlsbad, NM 88220

C 575.988.1472

[Quoted text hidden]

ATTACHMENT 6

Client Name: Devon Energy Production Company

Site Name: Onyx 29 CTB 1

NMOCD Tracking #: nAPP2213024415

Project #: 22E-01720-01 Lab Report: 2205A92

S	ample Descri	ption	Fi	eld Screeni	ng			Petrole	um Hydrod	arbons			
			S		Ŭ	Vol	atile		,	Extractable)		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
		- / /	(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH22-01	0	5/23/2022	0	23	540	ND	ND	ND	ND	ND	ND	ND	ND
BH22-01	2	5/23/2022	0	20	202	-	-	-	-	-	-	-	-
BH22-02	0	5/23/2022	0	101	537	ND	ND	ND	ND	ND	ND	ND	200
BH22-02	2	5/23/2022	0	24	320	-	-	-	-	-	-	-	-
BH22-03	0	5/23/2022	0	104	6,795	ND	ND	ND	ND	ND	ND	ND	45000
BH22-03	2	5/23/2022	0	80	537	ND	ND	ND	ND	ND	ND	ND	550
BH22-03	4	5/23/2022	0	35	195	-	-	-	-	-	-	-	-
BH22-04	0	5/23/2022	0	35	542	ND	ND	ND	ND	ND	ND	ND	110
BH22-04	2	5/23/2022	0	41	292	-	-	-	-	-	-	-	-
BH22-05	0	5/23/2022	0	41	542	ND	ND	ND	ND	ND	ND	ND	1400
BH22-05	2	5/23/2022	0	14	280	-	-	-	-	-	-	-	-
BH22-06	0	5/23/2022	0	55	5,298	ND	ND	ND	ND	ND	ND	ND	7700
BH22-06	2	5/23/2022	0	47	550	ND	ND	ND	ND	ND	ND	ND	730
BH22-06	4	5/23/2022	0	30	312	-	-	-	-	-	-	-	-
BH22-07	0	5/23/2022	0	38	397	ND	ND	ND	ND	ND	ND	ND	89
BH22-07	2	5/23/2022	0	31	490	-	-	-	-	-	-	-	-
BH22-08	0	5/23/2022	0	102	590	ND	ND	ND	15	ND	15	15	ND
BH22-08	2	5/23/2022	0	33	295	-	-	-	-	-	-	-	-

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

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



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

Client Name: Devon Energy Production Company

Site Name: Onyx 29 CTB 1 (Phase 1)
NM OCD Tracking #: nAPP2213024415

Project #: 22E-01720-001

Lab Report(sX): 2208802, 2208875, 2208917, 2208A05, 2208A84, 2208A82, 2208C61

	T	able 3. Confirma	tory Samp	le Field Sc	reen and	een and Laboratory Results - Depth to Groundwater <50 feet bgs								
S	ample Descrip	otion	Fi	eld Screeni	ng		-	Petrole	eum Hydro	carbons				
			spunodu	ag)	uo	Vol	atile	nics		S Extractable			Inorganic	
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds	Extractable Organic Scompounds (PetroFlag)	Chloride Concentration	Benzene (mg/kg)	(ga/gm) (Total)	Gasoline Range Organics স্থি (GRO)	ma Diesel Range Organics (A) (DRO)	Motor Oil Range Organics (MRO)	(gRO + DRO)	a Total Petroleum இ Hydrocarbons (TPH)	a) Saloride Concentration Saloride Concentration	
BES22-01	4	8/17/2022	0	-	540	ND	ND	ND	ND	ND	ND	ND	ND	
BES22-02	5	8/17/2022	0	-	410	ND	ND	ND	ND	ND	ND	ND	ND	
BES22-03	4	8/10/2022	0	-	-	ND	ND	ND	ND	ND	ND	ND	210	
BES22-04	4	8/9/2022	0	50	290	ND	ND	ND	ND	ND	ND	ND	130	
BES22-05	5 4	8/17/2022	0	-	421 473	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	
BES22-06 BES22-07	4	8/17/2022 8/17/2022	0	-	398	ND	ND	ND	ND	ND	ND	ND	ND	
BES22-07	2	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	89	
BES22-09	8	8/18/2022	0	-	378	ND	ND	ND	ND	ND	ND	ND	ND	
BES22-10	8	8/18/2022	0	-	243	ND	ND	ND	ND	ND	ND	ND	ND	
BES22-11	6	8/11/2022	0	103	382	ND	ND	ND	ND	ND	ND	ND	110	
BES22-12	6	8/11/2022	0	96	475	ND	ND	ND	ND	ND	ND	ND	ND	
BES22-13	6	8/11/2022	0	46	330	ND	ND	ND	ND	ND	ND	ND	97	
BES22-14	8	8/15/2022	0	88	456	ND	ND	ND	ND	ND	ND	ND	80	
BES22-15	4	8/15/2022	0	26	405	ND	ND	ND	ND	ND	ND	ND	200	
BES22-16	4	8/15/2022	0	41 63	355 257	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	460 83	
BES22-17	4	8/15/2022	0	28	280	ND ND	ND	ND	ND	ND ND	ND ND	ND	64	
BES22-18 BES22-19	4	8/15/2022 8/15/2022	0	30	637	ND	ND	ND	ND	ND	ND	ND	260	
BES22-20	4	8/15/2022	0	34	347	ND	ND	ND	ND	ND	ND	ND	130	
BES22-21	4	8/15/2022	0	18	345	ND	ND	ND	ND	ND	ND	ND	85	
BES22-22	4	8/15/2022	0	10	342	ND	ND	ND	ND	ND	ND	ND	110	
BES22-23	1	8/26/2022	0	55	550	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-03	1	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	520	
WES22-04	2	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	450	
WES22-05	2	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	87	
WES22-12	2	8/11/2022	0	28	550	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-12	4	8/11/2022	0	46	512	ND	ND	ND	ND	ND	ND	ND	190	
WES22-13	2	8/11/2022	0	28	335	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-13	4	8/11/2022	0	16	307	ND ND	ND	ND	ND	ND	ND	ND	ND 160	
WES22-14 WES22-14	4	8/11/2022 8/11/2022	0	74 33	602 545	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	160 170	
WES22-14 WES22-15	2	8/11/2022	0	39	435	ND ND	ND	ND	ND ND	ND	ND ND	ND ND	ND	
WES22-15	4	8/11/2022	0	46	205	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-16	2	8/11/2022	0	60	479	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-16	4	8/11/2022	0	70	591	ND	ND	ND	ND	ND	ND	ND	100	
WES22-17	2	8/11/2022	0	95	281	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-17	4	8/11/2022	0	110	270	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-19	2	8/12/2022	0	49	467	ND	ND	ND	ND	ND	ND	ND	140	
WES22-21	2	8/12/2022	0	93	350	ND	ND	ND	ND	ND	ND	ND	100	
WES22-25	2	8/12/2022	0	39	275	ND	ND	ND	ND	ND	ND	ND	120	
WES22-26	2	8/15/2022	0	-	322 565	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	140 68	
WES22-27 WES22-28	2	8/15/2022 8/15/2022	0	-	397	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	
WES22-28 WES22-29	2	8/15/2022 8/15/2022	0	-	375	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	
WES22-29 WES22-30	2	8/15/2022	0	-	395	ND	ND	ND	ND	ND	ND	ND	150	
WES22-30	2	8/15/2022	0	-	377	ND	ND	ND	ND	ND	ND	ND	71	
WES22-32	2	8/15/2022	0	-	370	ND	ND	ND	ND	ND	ND	ND	120	
WES22-33	2	8/15/2022	0	-	462	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-33	4	8/15/2022	0	-	409	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-34	2	8/15/2022	0	-	395	ND	ND	ND	ND	ND	ND	ND	ND	
WES22-34	4	8/15/2022	0	-	356	ND	ND	ND	ND	ND	ND	ND	ND	



WES22-35	2	8/16/2022	0	-	428	ND	
WES22-36	1	8/16/2022	0	-	582	ND	
WES22-37	1	8/16/2022	0	-	572	ND	
WES22-38	2	8/16/2022	0	-	1,258	ND	190
WES22-40	2	8/16/2022	0	-	385	ND	220
WES22-41	2	8/17/2022	0	-	272	ND	
WES22-42	2	8/17/2022	0	-	482	ND	
WES22-43	2	8/17/2022	0	-	395	ND	
WES22-44	2	8/17/2022	0		214	ND	
WES22-45	3	8/26/2022	0	29	345	ND	
WES22-46	3	8/26/2022	0	74	310	ND	
WES22-47	3	8/26/2022	0	9	315	ND	
WES22-48	3	8/26/2022	0	33	361	ND	
WES22-49	1	8/26/2022	0	23	425	ND	
WES22-50	0.5	8/26/2022	0	93	452	ND	

[&]quot;ND" Not Detected at the Reporting Limit
"-" indicates not analyzed/assessed

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



Client Name: Devon Energy Production Company

Site Name: Onyx 29 CTB 1 (Phase 1)
NM OCD Tracking #: nAPP2213024415

Project #: 22E-01720-001

Lab Report(sX): 2208802, 2208875, 2208917, 2208A05, 2208A84, 2208A82, 2208C61

		Table 4. Exca	vation Fie	eld Screen	and Labor	ratory Res	ults - Dept	h to Grou	ndwater <	50 feet be	'S		
9	Sample Descrip			eld Screeni		1			um Hydro		,-		
						Vol	atile		•	Extractable			Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene (mg/kg)	BTEX (Total)	জি Gasoline Range Organics সি (GRO)	Diesel Range Organics (DRO)	স্ত্র Motor Oil Range Organics স্থ (MRO)	(gRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
BES22-01	2	8/4/2022	0	27	587	-	-	-	-	-	-	-	-
BES22-01	2	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	760
BES22-01	4	8/17/2022	0	-	540	ND	ND	ND	ND	ND	ND	ND	ND
BES22-02	2	8/4/2022	0	32	480	-	-	-	-	-	-	-	-
BES22-02	4	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	620
BES22-02	5	8/17/2022	0	-	410	ND	ND	ND	ND	ND	ND	ND	ND
BES22-03	2	8/8/2022	0	-	3,940	-	-	-	-	-	-	-	-
BES22-03	4	8/8/2022	0	37	155	-	-	-	-	-	-	-	-
BES22-03	4	8/10/2022	0	-	-	ND	ND	ND	ND	ND	ND	ND	210
BES22-04	2	8/8/2022	0	-	2,367	-	-	-	-	-	-	-	-
BES22-04	4	8/9/2022	0	50	290	ND	ND	ND	ND	ND	ND	ND	130
BES22-05	2	8/8/2022	0	- 02	2,613	-	-	-	-	-	-	-	-
BES22-05	4	8/8/2022	0	83	477	-	-	-	-	-	-	-	-
BES22-05	4	8/10/2022	- 0	-	- 421	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	1200 ND
BES22-05	5	8/17/2022	0	64	362	ND	ND	ND	ND	ND	ND	ND	ND
BES22-06 BES22-06	2 2	8/8/2022 8/10/2022	-	-	- 302	ND	ND	ND	ND	ND	ND	ND	810
BES22-06	4	8/17/2022	0	-	473	ND	ND	ND	ND	ND	ND	ND	ND
BES22-07	2	8/8/2022	0	66	125	-	-	-	-	-	-	-	-
BES22-07	2	8/10/2022	_	-	-	ND	ND	ND	ND	ND	ND	ND	970
BES22-07	4	8/17/2022	0	-	398	ND	ND	ND	ND	ND	ND	ND	ND
BES22-08	2	8/8/2022	0	25	508	-	-	-	-	-	-	-	
BES22-08	2	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	89
BES22-09	6	8/11/2022	0	29	595	ND	ND	ND	25	ND	25	25	1600
BES22-09	8	8/18/2022	0	-	378	ND	ND	ND	ND	ND	ND	ND	ND
BES22-10	6	8/11/2022	0	51	610	ND	ND	ND	100	62	100	162	1800
BES22-10	8	8/18/2022	0	-	243	ND	ND	ND	ND	ND	ND	ND	ND
BES22-11	6	8/11/2022	0	103	382	ND	ND	ND	ND	ND	ND	ND	110
BES22-12	6	8/11/2022	0	96	475	ND	ND	ND	ND	ND	ND	ND	ND
BES22-13	6	8/11/2022	0	46	330	ND	ND	ND	ND	ND	ND	ND	97
BES22-14	6	8/11/2022	0	-	2,170	-	-	-	-	-	-	-	-
BES22-14	8	8/15/2022	0	88	456	ND	ND	ND	ND	ND	ND	ND	80
BES22-15	4	8/15/2022	0	26	405	ND	ND	ND	ND	ND	ND	ND	200
BES22-16	4	8/15/2022	0	41 62	355	ND	ND	ND	ND	ND	ND	ND	460
BES22-17	4	8/15/2022	0	63 28	257 280	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	83 64
BES22-18 BES22-19	4	8/15/2022 8/15/2022	0	30	637	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	260
BES22-19 BES22-20	4	8/15/2022	0	34	347	ND	ND	ND	ND	ND	ND	ND ND	130
BES22-21	4	8/15/2022	0	18	347	ND	ND	ND	ND	ND	ND	ND	85
BES22-22	4	8/15/2022	0	10	342	ND	ND	ND	ND	ND	ND	ND	110
BES22-23	1	8/26/2022	0	55	550	ND	ND	ND	ND	ND	ND	ND	ND
WES22-01	1	8/4/2022	0	88	220	-	-	-	-	-	-	-	-
WES22-01	1	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	1300
WES22-02	1	8/4/2022	0	41	225	-	-	-	-	-	-	-	-
WES22-02	1	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	760
WES22-03	1	8/4/2022	0	68	280	-	-	-	-	-	-	-	-
WES22-03	1	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	520
WES22-04	1	8/4/2022	0	55	277	-	-	-	-	-	-	-	·
WES22-04	2	8/10/2022	-	-	-	ND	ND	ND	ND	ND	ND	ND	450
WES22-05	1	8/4/2022	0	35	346	-	-	-	-	-	-	-	-
WES22-05	2	8/10/2022	-	-	- 0.55=	ND	ND	ND	ND	ND	ND	ND	87
WES22-06	1	8/8/2022	0	-	8,345	-	-	-	-	-	-	-	-



WES22-07	1	8/8/2022	0	76	45	_	_	_	_	_	_	_	_
WES22-07	2	8/10/2022	-	-	-	ND	2800						
WES22-08	1	8/8/2022	0	_	1,380	-	-	-	-	-	-	-	-
WES22-09	1	8/8/2022	0	90	445		_		_		_	_	
WES22-09	1	8/10/2022	-	-	-	ND	760						
WES22-10	1	8/8/2022	0	_	7,292	-	-	-	-	-	-	-	-
WES22-11	1	8/8/2022	0	0	263	_	-	_	_	_	_	_	_
WES22-11	1	8/10/2022	-	-	-	ND	1100						
WES22-12	2	8/11/2022	0	28	550	ND							
WES22-12	4	8/11/2022	0	46	512	ND	190						
WES22-12	2	8/11/2022	0	28	335	ND							
WES22-13 WES22-13	4	8/11/2022	0	16	307	ND	ND	ND	ND	ND	ND ND	ND	ND
WES22-13 WES22-14	2	8/11/2022	0	74	602	ND	160						
	4		0	33	545	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	170
WES22-14		8/11/2022	0			ND							ND
WES22-15	2	8/11/2022	0	39 46	435 205	ND ND							
WES22-15	4	8/11/2022											
WES22-16	2	8/11/2022	0	60 70	479 591	ND ND	ND 100						
WES22-16	4	8/11/2022											
WES22-17	2	8/11/2022	0	95 110	281 270	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND
WES22-17	4	8/11/2022		_								ND	
WES22-18	2	8/12/2022	0	- 40	1,487	- ND	- 140						
WES22-19	2	8/12/2022	0	49	467	ND	140						
WES22-20	2	8/12/2022	0	-	1,357	-	-	-	-	-	-	-	-
WES22-21	2	8/12/2022	0	93	350	ND	100						
WES22-22	2	8/12/2022	0	-	1,505	-	-	-	-	-	-	-	-
WES22-23	2	8/12/2022	0	-	925		-		-	-	-	-	-
WES22-24	2	8/12/2022	0	-	1,147	-	-		-	-	-	-	-
WES22-25	2	8/12/2022	0	39	275	ND	120						
WES22-26	2	8/15/2022	0	-	322	ND	140						
WES22-27	2	8/15/2022	0	-	565	ND	68						
WES22-28	2	8/15/2022	0	-	397	ND							
WES22-29	2	8/15/2022	0	-	375	ND							
WES22-30	2	8/15/2022	0	-	395	ND	150						
WES22-31	2	8/15/2022	0		377	ND	71						
WES22-32	2	8/15/2022	0	-	370	ND	120						
WES22-33	2	8/15/2022	0		462	ND							
WES22-33	4	8/15/2022	0	-	409	ND							
WES22-34	2	8/15/2022	0	-	395	ND							
WES22-34	4	8/15/2022	0	-	356	ND							
WES22-35	2	8/16/2022	0	-	428	ND							
WES22-36	1	8/16/2022	0	-	582	ND							
WES22-37	1	8/16/2022	0	-	572	ND	ND	ND	19	ND	19	19	ND
WES22-38	2	8/16/2022	0	-	1,258	ND	190						
WES22-39	2	8/16/2022	0	-	1,595	-	-	-	-	-	-	-	-
WES22-40	2	8/16/2022	0	-	385	ND	220						
WES22-41	2	8/17/2022	0	-	272	ND							
WES22-42	2	8/17/2022	0	-	482	ND							
WES22-43	2	8/17/2022	0	-	395	ND							
WES22-44	2	8/17/2022	0	-	214	ND							
WES22-45	3	8/26/2022	0	29	345	ND							
WES22-46	3	8/26/2022	0	74	310	ND							
WES22-47	3	8/26/2022	0	9	315	ND							
WES22-48	3	8/26/2022	0	33	361	ND							
WES22-49	1	8/26/2022	0	23	425	ND							
WES22-50	0.5	8/26/2022	0	93	452	ND							

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

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



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

Client Name: Devon Energy Production Company

Site Name: Onyx 29 CTB 1

NMOCD Tracking #: nAPP2116441032

Project #: 22E-01720-02 Lab Reports: 2205B74, 2205C48

	Table	5. Initial Charact	erization	Sample Fi	eld Screen	and Labo	ratory Re	sults - Dep	oth to Gro	undwater	<50 feet k	ogs	
Sa	ample Descri	ption	Fie	eld Screeni	ng			Petrole	eum Hydro	carbons			
			ds			Vol	atile			Extractable	9		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BHEX (Total)	(GRO)	Diesel Range Organics (A) (DRO)	Motor Oil Range Organics (MRO)	(mg/kg)	Total Petroleum Hydrocarbons (TPH)	3 স Chloride Concentration জি
BH22-01	0	5/24/2022	0	34	325	ND	ND	ND	20	ND	20	20	ND
BH22-01	2	5/24/2022	0	18	317	-	-	-	-	-	-	-	-
BH22-02	0	5/24/2022	0	37	3,362	ND	ND	ND	ND	ND	ND	ND	5400
BH22-02	2	5/24/2022	0	24	2,637	ND	ND	ND	ND	ND	ND	ND	2700
BH22-02	4	5/24/2022	0	36	360	ND	ND	ND	ND	ND	ND	ND	260
BH22-03	0	5/24/2022	0	2,000	4,560	ND	ND	ND	4100	2400	4100	6500	5500
BH22-03	2	5/24/2022	0	112	4,032	ND	ND	ND	240	140	240	380	3700
BH22-03	4	5/24/2022	0	488	1,467	-	-	-	-	-	-	-	-
BH22-03	5	5/24/2022	0	220	600	ND	ND	ND	480	460	480	940	640
BH22-04	0	5/24/2022	0	37	395	ND	ND	ND	12	ND	12	12	98
BH22-04	2	5/24/2022	0	13	300	-	-	-	-	-	-	-	-
BH22-05	0	5/24/2022	0	11	232	ND	ND	ND	29	ND	29	29	73
BH22-05	2	5/24/2022	0	19	387	-	-	-	-	-	-	-	-
BH22-06	0	5/24/2022	0	68	3,781	ND	ND	ND	17	ND	17	17	5000
BH22-06	2	5/24/2022	0	76	2,337	ND	ND	ND	ND	ND	ND	ND	4500
BH22-06	4	5/24/2022	0	66	817	-	-	-	-	-	-	-	-
BH22-06	6	5/24/2022	0	29	525	ND	ND	ND	ND	ND	ND	ND	120
BH22-07	0	5/24/2022	0	43	480	ND	ND	ND	ND	ND	ND	ND	100
BH22-07	2	5/24/2022	0	67	495	-	-	-	-	-	-	-	-
BH22-08	0	5/24/2022	0	2,000	1,125	ND	ND	ND	7100	4700	7100	11800	1300
BH22-08	2	5/24/2022	0	105	3,855	ND	ND	ND	76	72	76	148	4700
BH22-08	4	5/24/2022	0	102	977	-	-	-	-	- /-	-	-	-
BH22-08	5	5/24/2022	0	50	600	ND	ND	ND	120	120	120	240	720
BH22-09	0	5/24/2022	0	96	572	ND	ND	ND	16	ND	16	16	370
BH22-09	2	5/24/2022	0	58	477	-	-	-	-	-	-	-	-
BH22-10	0	5/24/2022	0	343	4,280	ND	ND	ND	390	370	390	760	20000
BH22-10	2	5/24/2022	0	123	4,400	ND	ND	ND	49	ND	49	49	7200
BH22-10	3	5/24/2022	0	48	585	ND	ND	ND	ND	ND	ND	ND	430
BH22-11	0	5/24/2022	0	25	370	ND	ND	ND	ND	ND	ND	ND	230
BH22-11	2	5/24/2022	0	14	310	-	-	-	-	-	-	-	-
BH22-11	0	5/24/2022	0	111	2,098	ND	ND	ND	ND	ND	ND	ND	17000
BH22-12	2	5/24/2022	0	17	585	ND	ND	ND	ND	ND	ND	ND	230
BH22-13	0	5/25/2022	0	146	328	ND	ND	ND	31	52	31	83	250
BH22-13	2	5/25/2022	0	28	440	ND	ND	ND	ND	ND	ND	ND	250
BH22-13	0	5/25/2022	0	114	160	ND	ND	ND	23	ND	23	23	70
BH22-14	2	5/25/2022	0	31	415	-	-	-	-	-	-	-	-
BH22-15	0	5/25/2022	0	56	158	ND	ND	ND	ND	ND	ND	ND	120
BH22-15	2	5/25/2022	0	21	180	-	-	-	-	-	-	-	-
BH22-15	0	5/25/2022	0	25	93	ND	ND	ND	ND	ND	ND	ND	ND
BH22-16	2	5/25/2022	0	38	135	-	-	-	-	-	-	-	-
BH22-17	0	5/25/2022	0	38	118	ND	ND	ND	ND	ND	ND	ND	ND
	2		0	6	78	- -	- ND	- -	- ND	- ND	- ND	- ND	- ND
BH22-17	2	5/25/2022	U	U	10				_			_	-

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

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



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

Client Name: Devon Energy Production Company

Site Name: Onyx 29 CTB 1 Phase 2 NM OCD Tracking #: nAPP2116441032

Project #: 22E-01720-001

Lab Report(sX): 2208102, 2208167, 2209087

	1	Table 6. Confirma	tory Samp	le Field So	reen and	Laborator	y Results -	Depth to	Groundwa	ater <50 fe	et bgs		
e,	Sample Descrip	otion	Fi	eld Screeni	ng			Petrole	eum Hydro	carbons			,
			ds			Vol	atile			Extractable	;		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics	Motor Oil Range Organics	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
25000 04	_	0/00/0000	(ppm) 0	(ppm)	(ppm) 529	(mg/kg) ND	(mg/kg) ND	(mg/kg) ND	(mg/kg)	(mg/kg) ND	(mg/kg) ND	(mg/kg) ND	(mg/kg) 97
BES22-01	1	8/29/2022	0	56 69	228	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	97 77
BES22-02	1	8/29/2022	0	72	472	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	110
BES22-03 BES22-04	2	8/29/2022	0	31	3,552	ND -	ND -	ND -	ND	ND -	ND -	ND	110
BES22-04 BES22-04	4	8/30/2022 8/31/2022	0	92	3,552	- ND	- ND	- ND	- ND	- ND	- ND	- ND	- ND
BES22-04 BES22-05	2	8/30/2022	0	48	547	ND	ND	ND	ND	ND	ND	ND	110
BES22-06	2	8/30/2022	0	27	437	ND	ND	ND	ND	ND	ND	ND	120
BES22-07	2	8/30/2022	0	60	470	ND	ND	ND	ND	ND	ND	ND	110
BES22-08	2	8/31/2022	0	71	480	ND	ND	ND	ND	ND	ND	ND	ND
BES22-09	2	8/31/2022	0	110	375	ND	ND	ND	ND	ND	ND	ND	62
BES22-10	2	8/31/2022	0	102	280	ND	ND	ND	ND	ND	ND	ND	ND
BES22-11	2	8/31/2022	0	34	71	ND	ND	ND	ND	ND	ND	ND	ND
WES22-01	0.5	8/29/2022	0	56	346	ND	ND	ND	ND	ND	ND	ND	110
WES22-02	0.5	8/29/2022	0	41	510	ND	ND	ND	ND	ND	ND	ND	110
WES22-03	0.5	8/29/2022	0	28	469	ND	ND	ND	ND	ND	ND	ND	190
WES22-04	0.5	8/29/2022	0	26	425	ND	ND	ND	ND	ND	ND	ND	170
WES22-05	2	8/29/2022	0	61	367	ND	ND	ND	ND	ND	ND	ND	150
WES22-06	2	8/29/2022	0	90	257	ND	ND	ND	ND	ND	ND	ND	180
WES22-07	2	8/29/2022	0	80	402	ND	ND	ND	ND	ND	ND	ND	290
WES22-08	2	8/29/2022	0	50	380	ND	ND	ND	ND	ND	ND	ND	270
WES22-09	1	8/30/2022	0	74	532	ND	ND	ND	ND	ND	ND	ND	180
WES22-09	2	8/31/2022	0	28	321	ND	ND	ND	ND	ND	ND	ND	ND
WES22-10	1	8/30/2022	0	72	430	ND	ND	ND	ND	ND	ND	ND	130
WES22-11	1	8/30/2022	0	10	452	ND	ND	ND	ND	ND	ND	ND	110
WES22-12	1	8/30/2022	0	18	360	ND	ND	ND	ND	ND	ND	ND	ND
WES22-13	1	8/31/2022	0	20	395	ND	ND	ND	ND	ND	ND	ND	ND
WES22-14	1	8/31/2022	0	18	437	ND	ND	ND	ND	ND	ND	ND	65
WES22-15	1	8/31/2022	0	25	317	ND	ND	ND	ND	ND	ND	ND	ND
WES22-16	1	8/31/2022	0	55	225	ND	ND	ND	ND	ND	ND	ND	ND
WES22-17	1	8/31/2022	0	48	280	ND	ND	ND	ND	ND	ND	ND	ND
WES22-18	2	8/31/2022	0	99	389	ND	ND	ND	ND	ND	ND	ND	ND
WES22-19	3	8/31/2022	0	55	345	ND	ND	ND	ND	ND	ND	ND	ND
WES22-20	3	8/31/2022	0	72	456	ND	ND	ND ND	ND	ND	ND	ND	ND
WES22-21	1.5	8/31/2022	0	43	220	ND	ND	ND	ND	ND	ND	ND	ND

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

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



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

ATTACHMENT 7



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

June 06, 2022

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

FAX:

RE: Onyx 29 CTB 1 OrderNo.: 2205A92

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 10 sample(s) on 5/25/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2205A92

Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-01 0'

 Project:
 Onyx 29 CTB 1
 Collection Date: 5/23/2022 9:00:00 AM

 Lab ID:
 2205A92-001
 Matrix: SOIL
 Received Date: 5/25/2022 7:15:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: JME
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	5/27/2022 4:51:36 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	5/27/2022 4:51:36 PM
Surr: DNOP	82.5	51.1-141	%Rec	1	5/27/2022 4:51:36 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	5/31/2022 9:09:06 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.025	mg/Kg	1	5/26/2022 9:46:31 PM
Toluene	ND	0.050	mg/Kg	1	5/26/2022 9:46:31 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/26/2022 9:46:31 PM
Xylenes, Total	ND	0.10	mg/Kg	1	5/26/2022 9:46:31 PM
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	5/26/2022 9:46:31 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	5/26/2022 9:46:31 PM
Surr: Dibromofluoromethane	113	70-130	%Rec	1	5/26/2022 9:46:31 PM
Surr: Toluene-d8	101	70-130	%Rec	1	5/26/2022 9:46:31 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/26/2022 9:46:31 PM
Surr: BFB	108	70-130	%Rec	1	5/26/2022 9:46:31 PM

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

Qualifiers:

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

Page 1 of 14

Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-02 0'

 Project:
 Onyx 29 CTB 1
 Collection Date: 5/23/2022 9:10:00 AM

 Lab ID:
 2205A92-002
 Matrix: SOIL
 Received Date: 5/25/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/27/2022 5:02:29 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/27/2022 5:02:29 PM
Surr: DNOP	71.6	51.1-141	%Rec	1	5/27/2022 5:02:29 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	200	60	mg/Kg	20	5/31/2022 9:46:20 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/26/2022 10:15:00 PM
Toluene	ND	0.048	mg/Kg	1	5/26/2022 10:15:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/26/2022 10:15:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	5/26/2022 10:15:00 PM
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	5/26/2022 10:15:00 PM
Surr: 4-Bromofluorobenzene	97.8	70-130	%Rec	1	5/26/2022 10:15:00 PM
Surr: Dibromofluoromethane	112	70-130	%Rec	1	5/26/2022 10:15:00 PM
Surr: Toluene-d8	99.5	70-130	%Rec	1	5/26/2022 10:15:00 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/26/2022 10:15:00 PM
Surr: BFB	108	70-130	%Rec	1	5/26/2022 10:15:00 PM

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

Qualifiers:

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

Page 2 of 14

Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-03 0'

 Project:
 Onyx 29 CTB 1
 Collection Date: 5/23/2022 9:20:00 AM

 Lab ID:
 2205A92-003
 Matrix: SOIL
 Received Date: 5/25/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/27/2022 5:13:19 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/27/2022 5:13:19 PM
Surr: DNOP	92.8	51.1-141	%Rec	1	5/27/2022 5:13:19 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	45000	1500	mg/Kg	500	6/2/2022 11:54:14 AM
EPA METHOD 8260B: VOLATILES SHORT LIS	Т				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	5/26/2022 10:43:31 PM
Toluene	ND	0.050	mg/Kg	1	5/26/2022 10:43:31 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/26/2022 10:43:31 PM
Xylenes, Total	ND	0.10	mg/Kg	1	5/26/2022 10:43:31 PM
Surr: 1,2-Dichloroethane-d4	98.5	70-130	%Rec	1	5/26/2022 10:43:31 PM
Surr: 4-Bromofluorobenzene	99.3	70-130	%Rec	1	5/26/2022 10:43:31 PM
Surr: Dibromofluoromethane	111	70-130	%Rec	1	5/26/2022 10:43:31 PM
Surr: Toluene-d8	101	70-130	%Rec	1	5/26/2022 10:43:31 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/26/2022 10:43:31 PM
Surr: BFB	109	70-130	%Rec	1	5/26/2022 10:43:31 PM

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

Qualifiers:

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

Page 3 of 14

Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-03 2'

 Project:
 Onyx 29 CTB 1
 Collection Date: 5/23/2022 9:30:00 AM

 Lab ID:
 2205A92-004
 Matrix: SOIL
 Received Date: 5/25/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/27/2022 5:24:09 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/27/2022 5:24:09 PM
Surr: DNOP	104	51.1-141	%Rec	1	5/27/2022 5:24:09 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	550	60	mg/Kg	20	5/31/2022 10:11:09 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	5/27/2022 1:06:40 AM
Toluene	ND	0.050	mg/Kg	1	5/27/2022 1:06:40 AM
Ethylbenzene	ND	0.050	mg/Kg	1	5/27/2022 1:06:40 AM
Xylenes, Total	ND	0.10	mg/Kg	1	5/27/2022 1:06:40 AM
Surr: 1,2-Dichloroethane-d4	96.0	70-130	%Rec	1	5/27/2022 1:06:40 AM
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	5/27/2022 1:06:40 AM
Surr: Dibromofluoromethane	108	70-130	%Rec	1	5/27/2022 1:06:40 AM
Surr: Toluene-d8	99.7	70-130	%Rec	1	5/27/2022 1:06:40 AM
EPA METHOD 8015D MOD: GASOLINE RANG	SE .				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/27/2022 1:06:40 AM
Surr: BFB	107	70-130	%Rec	1	5/27/2022 1:06:40 AM

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

Qualifiers:

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

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Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-04 0'

 Project:
 Onyx 29 CTB 1
 Collection Date: 5/23/2022 9:40:00 AM

 Lab ID:
 2205A92-005
 Matrix: SOIL
 Received Date: 5/25/2022 7:15:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/27/2022 5:34:57 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/27/2022 5:34:57 PM
Surr: DNOP	81.7	51.1-141	%Rec	1	5/27/2022 5:34:57 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	60	mg/Kg	20	5/31/2022 10:23:34 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 1:35:23 AM
Toluene	ND	0.049	mg/Kg	1	5/27/2022 1:35:23 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 1:35:23 AM
Xylenes, Total	ND	0.097	mg/Kg	1	5/27/2022 1:35:23 AM
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	5/27/2022 1:35:23 AM
Surr: 4-Bromofluorobenzene	98.4	70-130	%Rec	1	5/27/2022 1:35:23 AM
Surr: Dibromofluoromethane	109	70-130	%Rec	1	5/27/2022 1:35:23 AM
Surr: Toluene-d8	100	70-130	%Rec	1	5/27/2022 1:35:23 AM
EPA METHOD 8015D MOD: GASOLINE RANGE	į				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 1:35:23 AM
Surr: BFB	110	70-130	%Rec	1	5/27/2022 1:35:23 AM

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

Qualifiers:

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

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Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-05 0'

 Project:
 Onyx 29 CTB 1
 Collection Date: 5/23/2022 9:50:00 AM

 Lab ID:
 2205A92-006
 Matrix: SOIL
 Received Date: 5/25/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/27/2022 5:45:51 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/27/2022 5:45:51 PM
Surr: DNOP	82.5	51.1-141	%Rec	1	5/27/2022 5:45:51 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	1400	60	mg/Kg	20	5/31/2022 10:35:58 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 2:03:54 AM
Toluene	ND	0.049	mg/Kg	1	5/27/2022 2:03:54 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 2:03:54 AM
Xylenes, Total	ND	0.098	mg/Kg	1	5/27/2022 2:03:54 AM
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	5/27/2022 2:03:54 AM
Surr: 4-Bromofluorobenzene	97.8	70-130	%Rec	1	5/27/2022 2:03:54 AM
Surr: Dibromofluoromethane	110	70-130	%Rec	1	5/27/2022 2:03:54 AM
Surr: Toluene-d8	100	70-130	%Rec	1	5/27/2022 2:03:54 AM
EPA METHOD 8015D MOD: GASOLINE RANG	GE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 2:03:54 AM
Surr: BFB	109	70-130	%Rec	1	5/27/2022 2:03:54 AM

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

Qualifiers:

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

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Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-06 0'

 Project:
 Onyx 29 CTB 1
 Collection Date: 5/23/2022 10:00:00 AM

 Lab ID:
 2205A92-007
 Matrix: SOIL
 Received Date: 5/25/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/27/2022 5:56:48 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/27/2022 5:56:48 PM
Surr: DNOP	92.5	51.1-141	%Rec	1	5/27/2022 5:56:48 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	7700	300	mg/Kg	100	6/2/2022 5:35:08 AM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	5/27/2022 2:32:20 AM
Toluene	ND	0.049	mg/Kg	1	5/27/2022 2:32:20 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 2:32:20 AM
Xylenes, Total	ND	0.099	mg/Kg	1	5/27/2022 2:32:20 AM
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	5/27/2022 2:32:20 AM
Surr: 4-Bromofluorobenzene	97.9	70-130	%Rec	1	5/27/2022 2:32:20 AM
Surr: Dibromofluoromethane	113	70-130	%Rec	1	5/27/2022 2:32:20 AM
Surr: Toluene-d8	99.3	70-130	%Rec	1	5/27/2022 2:32:20 AM
EPA METHOD 8015D MOD: GASOLINE RANG	GE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 2:32:20 AM
Surr: BFB	106	70-130	%Rec	1	5/27/2022 2:32:20 AM

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

Qualifiers:

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

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Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-06 2'

 Project:
 Onyx 29 CTB 1
 Collection Date: 5/23/2022 10:10:00 AM

 Lab ID:
 2205A92-008
 Matrix: SOIL
 Received Date: 5/25/2022 7:15:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/27/2022 6:07:50 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/27/2022 6:07:50 PM
Surr: DNOP	113	51.1-141	%Rec	1	5/27/2022 6:07:50 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	730	60	mg/Kg	20	5/31/2022 11:25:34 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 3:00:45 AM
Toluene	ND	0.048	mg/Kg	1	5/27/2022 3:00:45 AM
Ethylbenzene	ND	0.048	mg/Kg	1	5/27/2022 3:00:45 AM
Xylenes, Total	ND	0.096	mg/Kg	1	5/27/2022 3:00:45 AM
Surr: 1,2-Dichloroethane-d4	100	70-130	%Rec	1	5/27/2022 3:00:45 AM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	5/27/2022 3:00:45 AM
Surr: Dibromofluoromethane	115	70-130	%Rec	1	5/27/2022 3:00:45 AM
Surr: Toluene-d8	99.6	70-130	%Rec	1	5/27/2022 3:00:45 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/27/2022 3:00:45 AM
Surr: BFB	113	70-130	%Rec	1	5/27/2022 3:00:45 AM

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

Qualifiers:

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

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Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-07 0'

 Project:
 Onyx 29 CTB 1
 Collection Date: 5/23/2022 10:20:00 AM

 Lab ID:
 2205A92-009
 Matrix: SOIL
 Received Date: 5/25/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	5/27/2022 6:18:52 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	5/27/2022 6:18:52 PM
Surr: DNOP	75.9	51.1-141	%Rec	1	5/27/2022 6:18:52 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	89	59	mg/Kg	20	5/31/2022 11:37:58 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST .				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 3:29:26 AM
Toluene	ND	0.047	mg/Kg	1	5/27/2022 3:29:26 AM
Ethylbenzene	ND	0.047	mg/Kg	1	5/27/2022 3:29:26 AM
Xylenes, Total	ND	0.094	mg/Kg	1	5/27/2022 3:29:26 AM
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	5/27/2022 3:29:26 AM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	5/27/2022 3:29:26 AM
Surr: Dibromofluoromethane	114	70-130	%Rec	1	5/27/2022 3:29:26 AM
Surr: Toluene-d8	100	70-130	%Rec	1	5/27/2022 3:29:26 AM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/27/2022 3:29:26 AM
Surr: BFB	107	70-130	%Rec	1	5/27/2022 3:29:26 AM

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

Qualifiers:

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

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Date Reported: 6/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-08 0'

 Project:
 Onyx 29 CTB 1
 Collection Date: 5/23/2022 10:30:00 AM

 Lab ID:
 2205A92-010
 Matrix: SOIL
 Received Date: 5/25/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	15	8.8	mg/Kg	1	5/27/2022 6:29:54 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	5/27/2022 6:29:54 PM
Surr: DNOP	82.3	51.1-141	%Rec	1	5/27/2022 6:29:54 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	5/31/2022 1:19:34 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 3:57:57 AM
Toluene	ND	0.047	mg/Kg	1	5/27/2022 3:57:57 AM
Ethylbenzene	ND	0.047	mg/Kg	1	5/27/2022 3:57:57 AM
Xylenes, Total	ND	0.094	mg/Kg	1	5/27/2022 3:57:57 AM
Surr: 1,2-Dichloroethane-d4	100	70-130	%Rec	1	5/27/2022 3:57:57 AM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/27/2022 3:57:57 AM
Surr: Dibromofluoromethane	112	70-130	%Rec	1	5/27/2022 3:57:57 AM
Surr: Toluene-d8	101	70-130	%Rec	1	5/27/2022 3:57:57 AM
EPA METHOD 8015D MOD: GASOLINE RANG	GE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/27/2022 3:57:57 AM
Surr: BFB	110	70-130	%Rec	1	5/27/2022 3:57:57 AM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

2205A92 06-Jun-22

WO#:

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB 1

Sample ID: MB-67791 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 67791 RunNo: 88375

Prep Date: 5/31/2022 Analysis Date: 5/31/2022 SeqNo: 3135632 Units: mq/Kg

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

Chloride ND 1.5

Sample ID: LCS-67791 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67791 RunNo: 88375

Prep Date: 5/31/2022 Analysis Date: 5/31/2022 SeqNo: 3135633 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.1 90 110

Sample ID: MB-67792 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 67792 RunNo: 88387

Prep Date: 5/31/2022 Analysis Date: 5/31/2022 SeqNo: 3135739 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-67792 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67792 RunNo: 88387

Prep Date: 5/31/2022 Analysis Date: 5/31/2022 SeqNo: 3135740 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.7 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

4.1

2205A92 06-Jun-22

WO#:

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB 1

Sample ID: MB-67713	SampT	SampType: MBLK TestCode: EPA Method 80					8015M/D: Die	015M/D: Diesel Range Organics				
Client ID: PBS	Batch	1D: 677	713	RunNo: 88321								
Prep Date: 5/26/2022	Analysis D	ate: 5/2	27/2022	9	SeqNo: 31	133778	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	ND	10										
Motor Oil Range Organics (MRO)	ND	50										
Surr: DNOP	9.2		10.00		92.2	51.1	141					

Sample ID: LCS-67713 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 67713 RunNo: 88321 Prep Date: 5/26/2022 Analysis Date: 5/27/2022 SeqNo: 3133779 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Diesel Range Organics (DRO) 10 0 99.1 50 50.00 64.4 127

82.4

51.1

141

5.000

Qualifiers:

Surr: DNOP

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2205A92 06-Jun-22**

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB 1

Sample ID: Ics-67701	Samp	Гуре: LC :	S4	Tes	tCode: EF	PA Method	8260B: Volatiles Short List				
Client ID: BatchQC	Batcl	h ID: 677	701	F	RunNo: 88	3322					
Prep Date: 5/25/2022	Analysis [Date: 5/2	26/2022	SeqNo: 3132369			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.93	0.025	1.000	0	92.9	80	120				
Toluene	0.98	0.050	1.000	0	97.8	80	120				
Ethylbenzene	1.0	0.050	1.000	0	101	80	120				
Xylenes, Total	3.0	0.10	3.000	0	101	80	120				
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		104	70	130				
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.1	70	130				
Surr: Dibromofluoromethane	0.56		0.5000		113	70	130				
Surr: Toluene-d8	0.49		0.5000		97.2	70	130				

Sample ID: mb-67701	EID: mb-67701 SampType: MBLK TestCode: EPA Method 8260B: \						K lestCode: EPA Method 8260B: Volatiles Short List					
Client ID: PBS	Batc	h ID: 67 7	701	F	RunNo: 8	3322						
Prep Date: 5/25/2022	Analysis [Date: 5/ 2	26/2022	;	SeqNo: 3	132370	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		103	70	130					
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130					
Surr: Dibromofluoromethane	0.58		0.5000		115	70	130					
Surr: Toluene-d8	0.50		0.5000		100	70	130					

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

2205A92 06-Jun-22

WO#:

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB 1

Sample ID: Ics-67701 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: LCSS Batch ID: 67701 RunNo: 88322 Units: mg/Kg Prep Date: 5/25/2022 Analysis Date: 5/26/2022 SeqNo: 3132396 **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Gasoline Range Organics (GRO) 24 5.0 25.00 n 95.6 70 130

 Gasoline Range Organics (GRO)
 24
 5.0
 25.00
 0
 95.6
 70
 130

 Surr: BFB
 510
 500.0
 102
 70
 130

Sample ID: mb-67701 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 67701 RunNo: 88322

Prep Date: 5/25/2022 Analysis Date: 5/26/2022 SeqNo: 3132397 Units: mg/Kg

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

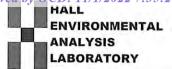
Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 550 500.0 109 70 130

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

	Vertex Resources Services, Inc.	Work Order Num	ber: 220	5A92		RcptN	o: 1
Received By:	Juan Rojas	5/25/2022 7:15:00	AM		Guaran &		
Completed By:	Sean Livingston	5/25/2022 8:44:36	AM		Juan Sal	,	
Reviewed By: 🤈	ns/25/22					781-	
Chain of Custo	ody.						
1. Is Chain of Cus	stody complete?		Yes	V	No 🗆	Not Present	
2. How was the sa	ample delivered?		Cou	rier			
Log In							
	t made to cool the samp	les?	Yes	V	No 🗆	NA □	
4. Were all sample	es received at a tempera	ture of >0° C to 6.0°C	Yes	V	No 🗆	NA 🗆	
5. Sample(s) in pr	oper container(s)?		Yes	V	No 🗌		
6. Sufficient sample	le volume for indicated to	est(s)?	Yes	~	No 🗌		
7. Are samples (ex	ccept VOA and ONG) pro	operly preserved?	Yes	V	No 🗆		
8. Was preservativ	ve added to bottles?		Yes		No 🗸	NA 🗆	
9. Received at least	st 1 vial with headspace	<1/4" for AQ VOA?	Yes		No 🗆	NA 🗹	
10, Were any samp	ole containers received b	roken?	Yes		No 🗹	# of preserved	
교사는 교통하는 동네 이번 유명하는 모양하는	match bottle labels?)	Yes	V	No 🗆	bottles checked for pH:	or >12 unless noted)
12. Are matrices co	rrectly identified on Chai	n of Custody?	Yes	~	No 🗌	Adjusted?	
13. Is it clear what a	analyses were requested	?	Yes	V	No 🗆		4.
1. A. A. A. M.	times able to be met? tomer for authorization.)		Yes	V	No 🗌	Checked by:	5-25-22
	ng (if applicable)						
	fied of all discrepancies v	with this order?	Yes		No 🗆	NA 🗹	
Person N	otified:	Date					
By Whom	1:	Via:	☐ eM	ail 🔲	Phone Fax	☐ In Person	
Regarding	g: [
Client Ins	tructions:						
16. Additional rem	arks:						
17. Cooler Inform	ation						
Cooler No	Temp °C Condition	Seal Intact Seal No	Seal D	ate	Signed By		
1	0.3 Good					1	

ease	in-of-C	Chain-of-Custody Record	-uun-	I urn-Around Time:	ne:				Ì					
Client:	Vertix		⊕ St	☑ Standard	Z Rush	50m		V		A L L	N I		HALL ENVIKONMENIAL ANALYSTS LABODATODY	A
)	Devor	(1)	Projec											2
Mailing Address:	ress:		20	Onlyx 2	29 CTB		7	4901 Hawkins NF	w awkins	N Hall	Albita	www.iiaiieiiviioiiiieiikai.com ns NF - Albiigiiergiie NM 87109	M 87109	
	NO 1	ile	Project #:	t#:				Tel 505-345-3975	5-345	3975	Fax	Eax 505-345-4107	4107	
Phone #:			22E	(A)	1720	0				Ā	alysis	Analysis Request	101	
email or Fax#:	<i>(#</i> :		Projec	Project Manager:	Į,			10	H		†O	(11		-
QA/QC Package:	age:	☐ Level 4 (Full Validation)		Monica	(4)	Peppin			SMIS		S ԠOc	nəsdA\		
Accreditation:	La	☐ Az Compliance		er: S C	withou	C. Dixon					O ⁵ ' I	aeuț		-
□ NELAC		- Le	On Ice	-	On Ice: A Yes				_		N			_
☐ EDD (Type))e)		# of Coolers:	olers:						tals	_	ΟΛ		
			Cooler	Cooler Temp(including CF): ()	ding CF): 0.3	3-0-0-3 (°C)	TM			θM 8		-imə		
Date Time	e Matrix	Sample Name	Container Type and #		Preservative Type	HEAL No.	\ <u>\(\(\)</u> 318	08:H9T 9 1808	N) BOE	S ARDF	S)F, E	2) 0728 S S S S S S S S S S S S S		
5/23 9:00	lios oc	BH72-01 0'		7	36		>					3		
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9:20	10	BH22-03 C	,0			003								
9:30	30	BH22-03 2	2,			1200			-					
9:40	10	BH122-04 (0,			205					1			
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10:00	06	BH22-06 C	0,			400								
01:01	0,	BH 22-06	2,			ROO								-
10:20	20	BH 22-07	0,			400								
10:30	30	BH22-08	,,			0,0				ΠE				
		100												
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Date: Time:	Relinquished by:	heg by:	Received by	by: V	Via:	Date	te	8 direct	t	Bill	Bill deron	5		
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

August 18, 2022

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

FAX:

RE: Onyx 29 CTB1 Separator OrderNo.: 2208802

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 16 sample(s) on 8/12/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-01 1'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/10/2022 1:00:00 PM

 Lab ID:
 2208802-001
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/16/2022 1:38:25 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/16/2022 1:38:25 PM
Surr: DNOP	97.7	21-129	%Rec	1	8/16/2022 1:38:25 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/15/2022 6:33:00 PM
Surr: BFB	99.5	37.7-212	%Rec	1	8/15/2022 6:33:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	8/15/2022 6:33:00 PM
Toluene	ND	0.049	mg/Kg	1	8/15/2022 6:33:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/15/2022 6:33:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/15/2022 6:33:00 PM
Surr: 4-Bromofluorobenzene	96.6	70-130	%Rec	1	8/15/2022 6:33:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	1300	60	mg/Kg	20	8/15/2022 11:14:26 PM

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

Qualifiers:

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

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Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-02 1'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/10/2022 1:05:00 PM

 Lab ID:
 2208802-002
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/16/2022 7:34:12 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/16/2022 7:34:12 AM
Surr: DNOP	90.9	21-129	%Rec	1	8/16/2022 7:34:12 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/15/2022 6:53:00 PM
Surr: BFB	101	37.7-212	%Rec	1	8/15/2022 6:53:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	8/15/2022 6:53:00 PM
Toluene	ND	0.049	mg/Kg	1	8/15/2022 6:53:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/15/2022 6:53:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/15/2022 6:53:00 PM
Surr: 4-Bromofluorobenzene	95.7	70-130	%Rec	1	8/15/2022 6:53:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	760	60	mg/Kg	20	8/15/2022 11:51:27 PM

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

Qualifiers:

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

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Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-03 1'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/10/2022 1:10:00 PM

 Lab ID:
 2208802-003
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	8/16/2022 7:48:07 AM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	8/16/2022 7:48:07 AM
Surr: DNOP	87.2	21-129	%Rec	1	8/16/2022 7:48:07 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/15/2022 7:13:00 PM
Surr: BFB	99.3	37.7-212	%Rec	1	8/15/2022 7:13:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	8/15/2022 7:13:00 PM
Toluene	ND	0.049	mg/Kg	1	8/15/2022 7:13:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/15/2022 7:13:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	8/15/2022 7:13:00 PM
Surr: 4-Bromofluorobenzene	96.6	70-130	%Rec	1	8/15/2022 7:13:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	520	60	mg/Kg	20	8/15/2022 10:08:26 PM

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

Qualifiers:

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

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Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-04 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/10/2022 1:15:00 PM

 Lab ID:
 2208802-004
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/16/2022 8:02:06 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/16/2022 8:02:06 AM
Surr: DNOP	88.2	21-129	%Rec	1	8/16/2022 8:02:06 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/15/2022 7:33:00 PM
Surr: BFB	102	37.7-212	%Rec	1	8/15/2022 7:33:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	8/15/2022 7:33:00 PM
Toluene	ND	0.049	mg/Kg	1	8/15/2022 7:33:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/15/2022 7:33:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/15/2022 7:33:00 PM
Surr: 4-Bromofluorobenzene	96.3	70-130	%Rec	1	8/15/2022 7:33:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	450	60	mg/Kg	20	8/15/2022 10:20:50 PM

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

Qualifiers:

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

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Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-05 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/10/2022 1:20:00 PM

 Lab ID:
 2208802-005
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: **DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/16/2022 8:15:31 AM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/16/2022 8:15:31 AM Surr: DNOP 90.2 21-129 %Rec 1 8/16/2022 8:15:31 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/15/2022 7:52:00 PM 4.9 mg/Kg 1 Surr: BFB 99.2 37.7-212 %Rec 1 8/15/2022 7:52:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 8/15/2022 7:52:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 8/15/2022 7:52:00 PM Ethylbenzene ND 0.049 mg/Kg 1 8/15/2022 7:52:00 PM Xylenes, Total ND 0.099 mg/Kg 8/15/2022 7:52:00 PM 1 Surr: 4-Bromofluorobenzene 96.7 70-130 %Rec 1 8/15/2022 7:52:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 8/15/2022 10:33:14 PM 87 60 20

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

Qualifiers:

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

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Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-07 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/10/2022 1:25:00 PM

 Lab ID:
 2208802-006
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/16/2022 8:29:29 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/16/2022 8:29:29 AM
Surr: DNOP	93.4	21-129	%Rec	1	8/16/2022 8:29:29 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/15/2022 8:12:00 PM
Surr: BFB	97.3	37.7-212	%Rec	1	8/15/2022 8:12:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	8/15/2022 8:12:00 PM
Toluene	ND	0.050	mg/Kg	1	8/15/2022 8:12:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	8/15/2022 8:12:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	8/15/2022 8:12:00 PM
Surr: 4-Bromofluorobenzene	95.8	70-130	%Rec	1	8/15/2022 8:12:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	71	60	mg/Kg	20	8/15/2022 11:10:27 PM

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

Qualifiers:

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

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Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-09 1'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/10/2022 1:30:00 PM

 Lab ID:
 2208802-007
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/16/2022 8:43:34 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/16/2022 8:43:34 AM
Surr: DNOP	93.6	21-129	%Rec	1	8/16/2022 8:43:34 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/15/2022 8:32:00 PM
Surr: BFB	99.6	37.7-212	%Rec	1	8/15/2022 8:32:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	8/15/2022 8:32:00 PM
Toluene	ND	0.049	mg/Kg	1	8/15/2022 8:32:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/15/2022 8:32:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	8/15/2022 8:32:00 PM
Surr: 4-Bromofluorobenzene	98.1	70-130	%Rec	1	8/15/2022 8:32:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	2800	150	mg/Kg	50	8/16/2022 7:57:24 AM

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

Qualifiers:

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

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Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-11 1'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/10/2022 1:35:00 PM

 Lab ID:
 2208802-008
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/16/2022 8:57:38 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/16/2022 8:57:38 AM
Surr: DNOP	91.4	21-129	%Rec	1	8/16/2022 8:57:38 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/15/2022 8:52:00 PM
Surr: BFB	102	37.7-212	%Rec	1	8/15/2022 8:52:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	8/15/2022 8:52:00 PM
Toluene	ND	0.050	mg/Kg	1	8/15/2022 8:52:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	8/15/2022 8:52:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	8/15/2022 8:52:00 PM
Surr: 4-Bromofluorobenzene	97.6	70-130	%Rec	1	8/15/2022 8:52:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	1100	60	mg/Kg	20	8/15/2022 11:35:16 PM

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

Qualifiers:

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

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Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-01 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/10/2022 1:40:00 PM

 Lab ID:
 2208802-009
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/16/2022 9:11:16 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/16/2022 9:11:16 AM
Surr: DNOP	87.9	21-129	%Rec	1	8/16/2022 9:11:16 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/15/2022 9:12:00 PM
Surr: BFB	98.6	37.7-212	%Rec	1	8/15/2022 9:12:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	8/15/2022 9:12:00 PM
Toluene	ND	0.048	mg/Kg	1	8/15/2022 9:12:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/15/2022 9:12:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	8/15/2022 9:12:00 PM
Surr: 4-Bromofluorobenzene	95.7	70-130	%Rec	1	8/15/2022 9:12:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	760	60	mg/Kg	20	8/15/2022 11:47:40 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix 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

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Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-02 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/10/2022 1:45:00 PM

 Lab ID:
 2208802-010
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Analyses Result **RL Qual Units** DF **Date Analyzed** Analyst: **DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/15/2022 10:20:06 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/15/2022 10:20:06 PM Surr: DNOP 84.9 21-129 %Rec 1 8/15/2022 10:20:06 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 8/16/2022 10:08:00 AM 4.8 mg/Kg 1 Surr: BFB 100 37.7-212 %Rec 1 8/16/2022 10:08:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 8/16/2022 10:08:00 AM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 8/16/2022 10:08:00 AM Ethylbenzene ND 0.048 mg/Kg 1 8/16/2022 10:08:00 AM Xylenes, Total ND 0.096 mg/Kg 1 8/16/2022 10:08:00 AM Surr: 4-Bromofluorobenzene 97.1 70-130 %Rec 1 8/16/2022 10:08:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 8/16/2022 12:00:04 AM 620 60 20

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

Qualifiers:

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

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Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-03 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/10/2022 1:50:00 PM

 Lab ID:
 2208802-011
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/15/2022 11:08:33 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/15/2022 11:08:33 PM
Surr: DNOP	83.1	21-129	%Rec	1	8/15/2022 11:08:33 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/16/2022 10:28:00 AM
Surr: BFB	101	37.7-212	%Rec	1	8/16/2022 10:28:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	8/16/2022 10:28:00 AM
Toluene	ND	0.050	mg/Kg	1	8/16/2022 10:28:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	8/16/2022 10:28:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	8/16/2022 10:28:00 AM
Surr: 4-Bromofluorobenzene	99.7	70-130	%Rec	1	8/16/2022 10:28:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	210	60	mg/Kg	20	8/16/2022 12:12:28 AM

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

Qualifiers:

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

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Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-04 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/10/2022 1:55:00 PM

 Lab ID:
 2208802-012
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: **DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/15/2022 11:24:37 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/15/2022 11:24:37 PM Surr: DNOP 89.2 21-129 %Rec 1 8/15/2022 11:24:37 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 8/16/2022 10:48:00 AM 4.8 mg/Kg 1 Surr: BFB 101 37.7-212 %Rec 1 8/16/2022 10:48:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 8/16/2022 10:48:00 AM mg/Kg 1 Toluene ND 0.048 mg/Kg 1 8/16/2022 10:48:00 AM Ethylbenzene ND 0.048 mg/Kg 1 8/16/2022 10:48:00 AM Xylenes, Total ND 0.096 mg/Kg 8/16/2022 10:48:00 AM 1 Surr: 4-Bromofluorobenzene 100 70-130 %Rec 1 8/16/2022 10:48:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 8/16/2022 12:24:52 AM 130 60 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

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

PQL Practical Quanitative 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

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Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-05 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/10/2022 2:00:00 PM

 Lab ID:
 2208802-013
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: **DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/15/2022 11:40:33 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/15/2022 11:40:33 PM Surr: DNOP 93.5 21-129 %Rec 1 8/15/2022 11:40:33 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 4.7 8/16/2022 11:08:00 AM mg/Kg 1 Surr: BFB 104 37.7-212 %Rec 1 8/16/2022 11:08:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 8/16/2022 11:08:00 AM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 8/16/2022 11:08:00 AM Ethylbenzene ND 0.047 mg/Kg 1 8/16/2022 11:08:00 AM Xylenes, Total ND 0.094 mg/Kg 8/16/2022 11:08:00 AM 1 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 8/16/2022 11:08:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 8/16/2022 12:37:17 AM 1200 60 20

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

Qualifiers:

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

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Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-06 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/10/2022 2:05:00 PM

 Lab ID:
 2208802-014
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/15/2022 11:56:23 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/15/2022 11:56:23 PM
Surr: DNOP	91.6	21-129	%Rec	1	8/15/2022 11:56:23 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/16/2022 11:27:00 AM
Surr: BFB	102	37.7-212	%Rec	1	8/16/2022 11:27:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	8/16/2022 11:27:00 AM
Toluene	ND	0.047	mg/Kg	1	8/16/2022 11:27:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	8/16/2022 11:27:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	8/16/2022 11:27:00 AM
Surr: 4-Bromofluorobenzene	97.7	70-130	%Rec	1	8/16/2022 11:27:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	810	60	mg/Kg	20	8/16/2022 12:49:41 AM

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

Qualifiers:

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

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Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-07 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/10/2022 2:10:00 PM

 Lab ID:
 2208802-015
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/16/2022 12:11:58 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/16/2022 12:11:58 AM
Surr: DNOP	88.3	21-129	%Rec	1	8/16/2022 12:11:58 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/16/2022 11:47:00 AM
Surr: BFB	104	37.7-212	%Rec	1	8/16/2022 11:47:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	8/16/2022 11:47:00 AM
Toluene	ND	0.048	mg/Kg	1	8/16/2022 11:47:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	8/16/2022 11:47:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	8/16/2022 11:47:00 AM
Surr: 4-Bromofluorobenzene	99.0	70-130	%Rec	1	8/16/2022 11:47:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	970	60	mg/Kg	20	8/16/2022 1:02:05 AM

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

Qualifiers:

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

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Date Reported: 8/18/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-08 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/10/2022 2:15:00 PM

 Lab ID:
 2208802-016
 Matrix: SOIL
 Received Date: 8/12/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/16/2022 12:27:56 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/16/2022 12:27:56 AM
Surr: DNOP	84.7	21-129	%Rec	1	8/16/2022 12:27:56 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/16/2022 12:07:00 PM
Surr: BFB	104	37.7-212	%Rec	1	8/16/2022 12:07:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	8/16/2022 12:07:00 PM
Toluene	ND	0.049	mg/Kg	1	8/16/2022 12:07:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/16/2022 12:07:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	8/16/2022 12:07:00 PM
Surr: 4-Bromofluorobenzene	98.2	70-130	%Rec	1	8/16/2022 12:07:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	89	60	mg/Kg	20	8/16/2022 1:39:18 AM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208802**

18-Aug-22

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Separator

Sample ID: MB-69500 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 69500 RunNo: 90282

Prep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3220689 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-69500 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: **LCSS** Batch ID: **69500** RunNo: **90282**

Prep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3220690 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 97.7 90 110

Sample ID: MB-69515 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 69515 RunNo: 90298

Prep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3220931 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-69515 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69515 RunNo: 90298

Prep Date: 8/15/2022 Analysis Date: 8/15/2022 SeqNo: 3220932 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.2 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208802**

18-Aug-22

Project:	Onyx 29 CTB1 Separator
Client:	Vertex Resources Services, Inc.

— Onyx 29 v	CIDI Sepai	ator									
Sample ID: MB-69511	SampTyp	pe: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch I	D: 69	511	F	RunNo: 90276						
Prep Date: 8/15/2022	Analysis Dat	te: 8/	15/2022	;	SeqNo: 32	221158	Units: mg/K	g			
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		92.4	21	129				
Sample ID: LCS-69511	SampTyp	pe: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics		
Client ID: LCSS	Batch I	D: 69	511	F	RunNo: 90	276					
Prep Date: 8/15/2022	Analysis Dat	te: 8/	15/2022	;	SeqNo: 32	221159	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	43	15	50.00	0	85.4	64.4	127				
Surr: DNOP	4.4		5.000		88.7	21	129				
Sample ID: 2208802-010AMS	SampTyp	pe: MS	3	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics		
Client ID: BES22-02 4'	Batch I	D: 69	511	F	RunNo: 90	276					
Prep Date: 8/15/2022	Analysis Dat	te: 8/	15/2022	;	SeqNo: 32	221161	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	43	15	48.92	0	87.4	36.1	154				
Surr: DNOP	3.4		4.892		69.2	21	129				
Sample ID: 2208802-010AMSD	SampTyp	ре: МS	SD	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BES22-02 4'	Batch I	D: 69	511	RunNo: 90276							
Prep Date: 8/15/2022	Analysis Dat	te: 8/	15/2022	;	SeqNo: 32	221162	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	42	15	48.69	0	86.5	36.1	154	1.51	33.9		
Surr: DNOP	3.5		4.869		71.9	21	129	0	0		
Sample ID: MB-69473	SampTyp	ре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics		
Client ID: PBS	Batch I	D: 69 4	473	F	RunNo: 90	276					
Prep Date: 8/12/2022	Analysis Dat	te: 8/	16/2022	;	SeqNo: 32	221171	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	8.3		10.00		83.1	21	129				
Sample ID: LCS-69473	SampTyr	pe: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics		
Client ID: LCSS	Batch ID: 69473			RunNo: 90276							
Prep Date: 8/12/2022	Analysis Dat	te: 8/	16/2022	;	SeqNo: 32	221173	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
									_		

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2208802 18-Aug-22

Client: Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Separator

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

Sample ID: MB-69507 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 69507 RunNo: 90304 Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3221327 Units: mg/Kg **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Diesel Range Organics (DRO) ND 15 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 10.00 129 9.7 97.0 21

Sample ID: LCS-69507 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 69507 RunNo: 90304 Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3221328 Units: mg/Kg %RPD **RPDLimit** Result PQL SPK value SPK Ref Val %REC HighLimit Analyte LowLimit Qual Diesel Range Organics (DRO) 43 15 50.00 86.2 64.4 127 Surr: DNOP 4.2 5.000 84.1

21

129

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208802** *18-Aug-22*

Client:	Vertex Resources Services, Inc.
Project:	Onyx 29 CTB1 Separator

Sample ID: Ics-69502	ID: Ics-69502 SampType: LCS					TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 69502				RunNo: 90302							
Prep Date: 8/15/2022	Analysis D	Date: 8/	16/2022	SeqNo: 3221186			Units: mg/K					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137					
Surr: BFB	2200		1000		219	37.7	212			S		
Sample ID: mb-69502 SampType: MBLK					tCode: EF	PA Method	8015D: Gaso	line Range)			

Client ID: PBS Batch ID: 69502				F	RunNo: 90	0302					
	Prep Date: 8/15/2022	Analysis D	ate: 8/ 1	16/2022	5	SeqNo: 32	221188	Units: mg/K	g		
	Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Gasoline Range Organics (GRO)	ND	5.0								
	Surr: BEB	1000		1000		102	37.7	212			

Sample ID: Ics-69476	SampT	ype: LC	S	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch	n ID: 69 4	176	RunNo: 90314						
Prep Date: 8/12/2022	Analysis D	Date: 8/	15/2022	5	SeqNo: 3221639			g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	72.3	137			
Surr: RFR	2300		1000		228	37.7	212			S

Sample ID: mb-69476	76 SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch	n ID: 69 4	176	F	RunNo: 90					
Prep Date: 8/12/2022	Analysis D	oate: 8/1	15/2022	9	SeqNo: 3221640		Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								<u>-</u>
Surr: BFB	1000		1000		104	37.7	212			

Sample ID: 2208802-010ams	Samp1	Гуре: МS	;	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BES22-02 4'	Batcl	h ID: 695	502	RunNo: 90302						
Prep Date: 8/15/2022	Analysis [Date: 8/	16/2022	SeqNo: 3222275			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.9	24.49	0	114	70	130			
Surr: BFB	2300		979.4		236	37.7	212			S

Sample ID:	2208802-010amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	BES22-02 4'	Batch	ID: 69	502	F	RunNo: 90302					
Prep Date:	8/15/2022	Analysis Da	Analysis Date: 8/16/2022			SeqNo: 3	222276	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208802 18-Aug-22**

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Separator

Sample ID: 2208802-010amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: BES22-02 4' Batch ID: 69502 RunNo: 90302 SeqNo: 3222276 Prep Date: 8/15/2022 Analysis Date: 8/16/2022 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 29 4.9 24.63 0 117 70 130 3.25 20 Surr: BFB 2300 985.2 237 37.7 212 0 0 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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208802**

18-Aug-22

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Separator

Sample ID: Ics-69502	SampT	Гуре: LC :	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	h ID: 695	502	F	RunNo: 90	0302				
Prep Date: 8/15/2022	Analysis D	Date: 8/ 1	16/2022	5	SeqNo: 32	221187	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.1	80	120			
Toluene	0.92	0.050	1.000	0	92.5	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.1	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.5	70	130			

Sample ID: mb-69502	Samp	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batcl	n ID: 695	502	F	RunNo: 90	0302				
Prep Date: 8/15/2022	Analysis [Date: 8/	16/2022	5	SeqNo: 32	221192	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025		_			_			
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.8	70	130			

Sample ID: Ics-69476	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	n ID: 694	176	F	RunNo: 90	314				
Prep Date: 8/12/2022	Analysis D	Date: 8/1	15/2022	5	SeqNo: 32	221663	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.2	80	120			
Toluene	0.92	0.050	1.000	0	92.0	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.6	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: mb-69476	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batch	n ID: 69 4	176	F	RunNo: 90	0314				
Prep Date: 8/12/2022	Analysis D	Date: 8/	15/2022	9	SeqNo: 32	221664	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208802**

18-Aug-22

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Separator

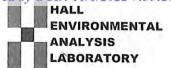
Sample ID: 2208802-011ams Client ID: BES22-03 4' Prep Date: 8/15/2022	·	Гуре: MS h ID: 695 Date: 8/ °		F	tCode: EF RunNo: 9 (SeqNo: 3 2	0302	8021B: Volati Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9497	0	92.5	68.8	120			
Toluene	0.90	0.047	0.9497	0	94.9	73.6	124			
Ethylbenzene	0.93	0.047	0.9497	0	98.1	72.7	129			
Xylenes, Total	2.8	0.095	2.849	0	97.6	75.7	126			
Surr: 4-Bromofluorobenzene	0.95		0.9497		100	70	130			

Sample ID: 2208802-011ams	d Samp	Туре: МЅ	SD	Tes	stCode: El	PA Method	8021B: Volati	les		
Client ID: BES22-03 4'	Bato	h ID: 695	502	F	RunNo: 90	0302				
Prep Date: 8/15/2022	Analysis	Date: 8/	16/2022	9	SeqNo: 3	222284	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.024	0.9443	0	92.2	68.8	120	0.914	20	
Toluene	0.90	0.047	0.9443	0	95.0	73.6	124	0.439	20	
Ethylbenzene	0.92	0.047	0.9443	0	97.8	72.7	129	0.864	20	
Xylenes, Total	2.8	0.094	2.833	0	97.6	75.7	126	0.516	20	
Surr: 4-Bromofluorobenzene	0.94		0.9443		99.6	70	130	0	0	

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Vertex Resources Services, Inc.	Work Order Num	ber: 220	8802		RcptNo:	1
Received By:	Juan Rojas	8/12/2022 7:20:00	AM		flansing	i.	
Completed By:	Cheyenne Cason	8/12/2022 8:07:50	AM		Charles Charles		
Reviewed By:	TMC	8/12/22					
Chain of Cus	tody						
1. Is Chain of C	ustody complete?		Yes	V	No 🗌	Not Present	
2. How was the	sample delivered?		Cou	rier			
Log In							
Comment of the last of the las	npt made to cool the samp	les?	Yes	~	No 🗌	NA 🗌	
4. Were all samp	oles received at a tempera	sture of >0° C to 6.0°C	Yes	✓	No 🗌	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes	~	No 🗌		
6. Sufficient sam	ple volume for indicated to	est(s)?	Yes	V	No 🗌		
7. Are samples (except VOA and ONG) pr	operly preserved?	Yes	V	No 🗌		
8. Was preserva	tive added to bottles?		Yes		No 🗸	NA 🗆	
9. Received at le	ast 1 vial with headspace	<1/4" for AQ VOA?	Yes		No 🗆	NA 🗹	
10. Were any san	nple containers received b	oroken?	Yes		No 🗸		
						# of preserved bottles checked	
	ork match bottle labels? ancies on chain of custody	Λ.	Yes	V	No 🗆	for pH:	>12 unloss mated)
	correctly identified on Chai		Yes		No 🗌	Adjusted?	>12 unless noted)
	t analyses were requested		Yes	V	No 🗆		
14. Were all holding	ng times able to be met?		Yes		No 🗆	Checked by:	ns/12/22
	ustomer for authorization.)				-		
ALCOHOLD TO THE	ing (if applicable)						
15. Was client no	tified of all discrepancies	with this order?	Yes		No 🗌	NA 🗸	
Person	Notified:	Date					
By Who	om:	Via:	_ eM	ail 🔲	Phone Fax	In Person	
Regardi	ing:						
Client Ir	nstructions:						
16. Additional rer	marks:						
17. <u>Cooler Information</u> Cooler No		Seal Intact Seal No Not Present	Seal D	ate	Signed By		

eivee 2	ate:	OC1	Date:	1/1/	202	2 7::	35:2	6 AM						L	8110	Date	□ EDD	□ NELAC	Accre	QA/QC Packa	email	Phone #:		Mailin	Pag	e 14 lient:	9 of
190	Time:		Time:	1:55	1:50	1:45	1:40	1:35	1:30	1:25	1:20	1:15	1:10	1:05	31:00	Time	D (Type)	LAC	Accreditation:	QA/QC Package:	email or Fax#:	#:		Mailing Address:		Nevan	Chain
26	Relinquished by:		Relinquished by:											_	5011	Matrix		□ other	□ Az C				-	9		/	ot-C
Survey	hed by:			8 8522-04 4	BES22-03 4	35522-02 4	BES22-01 2	WESZZ-11 1'	WESZZ-09 /	NESZZ-07 Z	WES 22-05 2	WESZE-01) Z	WESZZ-03 1	WESTZ-02)	1 WESZZ-01 1	Sample Name		er	Az Compliance	☐ Level 4 (Full Validation)				File		vertex	Chain-of-Custody Record
D	Received by:	Warn	Received by:			^									204	Cooler Temp(including cF): Container Preserva Type and # Type	# of Coolers	On Ice:	Sampler: Z		Project Manager:	228	Project #:	ongx	Project Name:	□ Standard	Turn-Around Time:
) molaly	Via:	22	Via:												ICE	- I	-	□¥es	Ś	Kent stallings	ager:	225-01720		013		d Rush	d lime: Z-
0825-26/21/2-	Time	2/11/22 11/12	Date Time	210	011	010	Ba	800	007	06	28	Cod	263	æ2	Ē	TO 20.5 (°C)		□ No		ings		200-		(SC Parator)		sh_	-099
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3	(>	Remarks:	-									E	-	~	TPH:80150		_	-				Te	490			
6															H	8081 Pesti			-	PCB's			Tel. 505-345-3975	4901 Hawkins NE		4	
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Time: Relinquished by:		Z:15 8E522-08 Z	2:10 85522-07 2	1 2:05 8ESZZ-06 Z	8/10 2:00 SOIT BESZZ-OS 4)	Date Time Matrix Sample Name	□ EDD (Type)	Accreditation: □/Az Compliance □ NELAC □ Other	QA/QC Package:	email or Fax#:	Phone #:		Mailing Address:	Bergn Wrtcx	Chain-of-Custody Record
Date N. 2/22	Received by: Via: Date Time	910	015	014	402 200 013	Cooler Temp(including CF): (b-)-0=0.(°C) Container Preservative HEAL No. (Type and # Type 22088-02	# of Coolers: 1	Sampler: CD On Ice: DYes D No	Kent starrings	Project Manager:	225-01720-002	Project #:	Ongx ZG CT8 1	□ Standard ☑ Rush	Turn-Around Time: 2-DGy
19291	Remarks: CC: Chance Dixon					BTEX MT TPH:8015D 8081 Pestic EDB (Meth PAHs by 83 RCRA 8 Me	(GF cide cide 310 setals NO ₃	RO / DF s/8082 504.1) or 827 s s, NO ₂	PCB's	O) 6O ₄	Analysis	л	www.hallenvironmental.com	4	HALL ENVIRONMENTA



HALL ENVIRONMENTAL

Released to Imaging: 11/22/2022 2:01:52 PM



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

August 22, 2022

Kent Stallings
Devon Energy
6488 Seven Rivers Highway
Artesia, NM 88210

TEL: (575) 748-0176

FAX

RE: Onyx 29 CTB1 Separator OrderNo.: 2208875

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 17 sample(s) on 8/13/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **2208875**Date Reported: **8/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-12 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/11/2022 10:00:00 AM

 Lab ID:
 2208875-001
 Matrix: SOIL
 Received Date: 8/13/2022 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) 8/17/2022 12:05:00 PM ND 14 mg/Kg 1 Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/17/2022 12:05:00 PM Surr: DNOP 98.4 21-129 %Rec 1 8/17/2022 12:05:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 61 8/16/2022 9:07:54 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM ND 0.024 mg/Kg 8/16/2022 5:08:43 PM 1 Toluene ND 0.047 mg/Kg 8/16/2022 5:08:43 PM 1 Ethylbenzene ND 0.047 mg/Kg 1 8/16/2022 5:08:43 PM Xylenes, Total ND 0.095 mg/Kg 1 8/16/2022 5:08:43 PM Surr: 1.2-Dichloroethane-d4 104 70-130 %Rec 1 8/16/2022 5:08:43 PM Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 8/16/2022 5:08:43 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/16/2022 5:08:43 PM 117 Surr: Toluene-d8 98.1 70-130 %Rec 1 8/16/2022 5:08:43 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND mg/Kg 8/16/2022 5:08:43 PM 47 1 Surr: BFB 117 70-130 %Rec 1 8/16/2022 5:08:43 PM

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

Qualifiers:

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

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Lab Order **2208875**Date Reported: **8/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-12 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/11/2022 10:05:00 AM

 Lab ID:
 2208875-002
 Matrix: SOIL
 Received Date: 8/13/2022 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/17/2022 12:29:23 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/17/2022 12:29:23 PM Surr: DNOP 103 21-129 %Rec 1 8/17/2022 12:29:23 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 8/16/2022 9:45:07 PM 190 59 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM ND 0.024 mg/Kg 8/16/2022 5:37:25 PM 1 Toluene ND 0.048 mg/Kg 8/16/2022 5:37:25 PM 1 Ethylbenzene ND 0.048 mg/Kg 1 8/16/2022 5:37:25 PM Xylenes, Total ND 0.096 mg/Kg 1 8/16/2022 5:37:25 PM Surr: 1.2-Dichloroethane-d4 104 70-130 %Rec 1 8/16/2022 5:37:25 PM Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 8/16/2022 5:37:25 PM Surr: Dibromofluoromethane 122 70-130 %Rec 1 8/16/2022 5:37:25 PM Surr: Toluene-d8 98.7 70-130 %Rec 1 8/16/2022 5:37:25 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/16/2022 5:37:25 PM 48 mg/Kg 1 Surr: BFB 118 70-130 %Rec 1 8/16/2022 5:37:25 PM

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

Qualifiers:

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

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Gasoline Range Organics (GRO)

Surr: BFB

Analytical Report

Lab Order **2208875**

Date Reported: 8/22/2022

8/16/2022 6:06:11 PM

8/16/2022 6:06:11 PM

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-13 2'

mg/Kg

%Rec

1

1

48

70-130

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/11/2022 10:10:00 AM

 Lab ID:
 2208875-003
 Matrix: SOIL
 Received Date: 8/13/2022 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: mb Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/17/2022 12:53:58 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/17/2022 12:53:58 PM Surr: DNOP 82.4 21-129 %Rec 1 8/17/2022 12:53:58 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 8/16/2022 9:57:31 PM 59 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM ND 0.024 mg/Kg 8/16/2022 6:06:11 PM 1 Toluene ND 0.048 mg/Kg 8/16/2022 6:06:11 PM 1 Ethylbenzene ND 0.048 mg/Kg 1 8/16/2022 6:06:11 PM Xylenes, Total ND 0.096 mg/Kg 1 8/16/2022 6:06:11 PM Surr: 1.2-Dichloroethane-d4 110 70-130 %Rec 1 8/16/2022 6:06:11 PM Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 8/16/2022 6:06:11 PM Surr: Dibromofluoromethane 124 70-130 %Rec 1 8/16/2022 6:06:11 PM Surr: Toluene-d8 99.1 70-130 %Rec 1 8/16/2022 6:06:11 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM

ND

116

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

Qualifiers:

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

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Lab Order **2208875**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/22/2022

CLIENT: Devon Energy Client Sample ID: WES22-13 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/11/2022 10:15:00 AM

 Lab ID:
 2208875-004
 Matrix: SOIL
 Received Date: 8/13/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/17/2022 1:18:14 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/17/2022 1:18:14 PM
Surr: DNOP	77.2	21-129	%Rec	1	8/17/2022 1:18:14 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/16/2022 10:34:44 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	8/16/2022 6:34:53 PM
Toluene	ND	0.049	mg/Kg	1	8/16/2022 6:34:53 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/16/2022 6:34:53 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/16/2022 6:34:53 PM
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	1	8/16/2022 6:34:53 PM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	8/16/2022 6:34:53 PM
Surr: Dibromofluoromethane	122	70-130	%Rec	1	8/16/2022 6:34:53 PM
Surr: Toluene-d8	101	70-130	%Rec	1	8/16/2022 6:34:53 PM
EPA METHOD 8015D MOD: GASOLINE RANG	SE .				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/16/2022 6:34:53 PM
Surr: BFB	119	70-130	%Rec	1	8/16/2022 6:34:53 PM

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

Qualifiers:

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

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Lab Order **2208875**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/22/2022

CLIENT: Devon Energy Client Sample ID: WES22-14 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/11/2022 10:20:00 AM

 Lab ID:
 2208875-005
 Matrix: SOIL
 Received Date: 8/13/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/17/2022 1:42:46 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/17/2022 1:42:46 PM
Surr: DNOP	98.7	21-129	%Rec	1	8/17/2022 1:42:46 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	160	60	mg/Kg	20	8/16/2022 10:47:09 PM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	8/16/2022 7:03:33 PM
Toluene	ND	0.047	mg/Kg	1	8/16/2022 7:03:33 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/16/2022 7:03:33 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/16/2022 7:03:33 PM
Surr: 1,2-Dichloroethane-d4	109	70-130	%Rec	1	8/16/2022 7:03:33 PM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/16/2022 7:03:33 PM
Surr: Dibromofluoromethane	126	70-130	%Rec	1	8/16/2022 7:03:33 PM
Surr: Toluene-d8	98.4	70-130	%Rec	1	8/16/2022 7:03:33 PM
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/16/2022 7:03:33 PM
Surr: BFB	117	70-130	%Rec	1	8/16/2022 7:03:33 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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

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Lab Order 2208875

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-14 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/11/2022 10:25:00 AM

 Lab ID:
 2208875-006
 Matrix: SOIL
 Received Date: 8/13/2022 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/17/2022 1:56:26 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 8/17/2022 1:56:26 PM Surr: DNOP 93.9 21-129 %Rec 1 8/17/2022 1:56:26 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 8/16/2022 10:59:33 PM 170 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM ND 0.025 mg/Kg 8/16/2022 7:32:10 PM 1 Toluene ND 0.050 mg/Kg 8/16/2022 7:32:10 PM 1 Ethylbenzene ND 0.050 mg/Kg 1 8/16/2022 7:32:10 PM Xylenes, Total ND 0.10 mg/Kg 1 8/16/2022 7:32:10 PM Surr: 1.2-Dichloroethane-d4 106 70-130 %Rec 1 8/16/2022 7:32:10 PM Surr: 4-Bromofluorobenzene 107 70-130 %Rec 1 8/16/2022 7:32:10 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/16/2022 7:32:10 PM 119 Surr: Toluene-d8 99.9 70-130 %Rec 1 8/16/2022 7:32:10 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND mg/Kg 8/16/2022 7:32:10 PM 5.0 1 Surr: BFB 119 70-130 %Rec 1 8/16/2022 7:32:10 PM

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

Qualifiers:

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

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Lab Order **2208875**Date Reported: **8/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-15 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/11/2022 10:30:00 AM

 Lab ID:
 2208875-007
 Matrix: SOIL
 Received Date: 8/13/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/17/2022 11:09:00 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/17/2022 11:09:00 AM
Surr: DNOP	82.1	21-129	%Rec	1	8/17/2022 11:09:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/16/2022 11:11:58 PM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	8/16/2022 8:00:48 PM
Toluene	ND	0.047	mg/Kg	1	8/16/2022 8:00:48 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/16/2022 8:00:48 PM
Xylenes, Total	ND	0.093	mg/Kg	1	8/16/2022 8:00:48 PM
Surr: 1,2-Dichloroethane-d4	107	70-130	%Rec	1	8/16/2022 8:00:48 PM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	8/16/2022 8:00:48 PM
Surr: Dibromofluoromethane	122	70-130	%Rec	1	8/16/2022 8:00:48 PM
Surr: Toluene-d8	101	70-130	%Rec	1	8/16/2022 8:00:48 PM
EPA METHOD 8015D MOD: GASOLINE RAI	NGE				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/16/2022 8:00:48 PM
Surr: BFB	119	70-130	%Rec	1	8/16/2022 8:00:48 PM

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

Qualifiers:

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

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Analytical Report

Lab Order **2208875**Date Reported: **8/22/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-15 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/11/2022 10:35:00 AM

 Lab ID:
 2208875-008
 Matrix: SOIL
 Received Date: 8/13/2022 7:40:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGAI	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/17/2022 11:23:03 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/17/2022 11:23:03 AM
Surr: DNOP	78.5	21-129	%Rec	1	8/17/2022 11:23:03 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/16/2022 11:24:22 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	8/16/2022 8:29:23 PM
Toluene	ND	0.046	mg/Kg	1	8/16/2022 8:29:23 PM
Ethylbenzene	ND	0.046	mg/Kg	1	8/16/2022 8:29:23 PM
Xylenes, Total	ND	0.093	mg/Kg	1	8/16/2022 8:29:23 PM
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	8/16/2022 8:29:23 PM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	8/16/2022 8:29:23 PM
Surr: Dibromofluoromethane	115	70-130	%Rec	1	8/16/2022 8:29:23 PM
Surr: Toluene-d8	101	70-130	%Rec	1	8/16/2022 8:29:23 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/16/2022 8:29:23 PM
Surr: BFB	122	70-130	%Rec	1	8/16/2022 8:29:23 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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

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Analytical Report

Lab Order **2208875**Date Reported: **8/22/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-16 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/11/2022 10:40:00 AM

 Lab ID:
 2208875-009
 Matrix: SOIL
 Received Date: 8/13/2022 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/17/2022 9:32:06 AM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/17/2022 9:32:06 AM Surr: DNOP 86.9 21-129 %Rec 1 8/17/2022 9:32:06 AM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 8/16/2022 11:36:46 PM 60 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM ND 0.025 mg/Kg 8/16/2022 8:57:57 PM 1 Toluene ND 0.050 mg/Kg 8/16/2022 8:57:57 PM 1 Ethylbenzene ND 0.050 mg/Kg 1 8/16/2022 8:57:57 PM Xylenes, Total ND 0.099 mg/Kg 1 8/16/2022 8:57:57 PM Surr: 1.2-Dichloroethane-d4 105 70-130 %Rec 1 8/16/2022 8:57:57 PM Surr: 4-Bromofluorobenzene 103 70-130 %Rec 1 8/16/2022 8:57:57 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/16/2022 8:57:57 PM 119 Surr: Toluene-d8 99.1 70-130 %Rec 1 8/16/2022 8:57:57 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/16/2022 8:57:57 PM 5.0 mg/Kg 1 Surr: BFB 114 70-130 %Rec 1 8/16/2022 8:57:57 PM

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

Qualifiers:

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

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Analytical Report

Lab Order **2208875**Date Reported: **8/22/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-16 4'

Project: Onyx 29 CTB1 Separator Collection Date: 8/11/2022 10:45:00 AM

Lab ID: 2208875-010 **Matrix:** SOIL **Received Date:** 8/13/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/17/2022 9:45:54 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/17/2022 9:45:54 AM
Surr: DNOP	95.8	21-129	%Rec	1	8/17/2022 9:45:54 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	100	60	mg/Kg	20	8/16/2022 7:04:05 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	8/16/2022 9:26:30 PM
Toluene	ND	0.049	mg/Kg	1	8/16/2022 9:26:30 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/16/2022 9:26:30 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/16/2022 9:26:30 PM
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	8/16/2022 9:26:30 PM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	8/16/2022 9:26:30 PM
Surr: Dibromofluoromethane	112	70-130	%Rec	1	8/16/2022 9:26:30 PM
Surr: Toluene-d8	102	70-130	%Rec	1	8/16/2022 9:26:30 PM
EPA METHOD 8015D MOD: GASOLINE RANG	Ε				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/16/2022 9:26:30 PM
Surr: BFB	121	70-130	%Rec	1	8/16/2022 9:26:30 PM

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

Qualifiers:

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

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Lab Order 2208875

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-17 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/11/2022 10:50:00 AM

 Lab ID:
 2208875-011
 Matrix: SOIL
 Received Date: 8/13/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/17/2022 9:59:50 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/17/2022 9:59:50 AM
Surr: DNOP	92.7	21-129	%Rec	1	8/17/2022 9:59:50 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/16/2022 8:30:31 PM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	8/16/2022 9:55:05 PM
Toluene	ND	0.049	mg/Kg	1	8/16/2022 9:55:05 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/16/2022 9:55:05 PM
Xylenes, Total	ND	0.097	mg/Kg	1	8/16/2022 9:55:05 PM
Surr: 1,2-Dichloroethane-d4	107	70-130	%Rec	1	8/16/2022 9:55:05 PM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	8/16/2022 9:55:05 PM
Surr: Dibromofluoromethane	122	70-130	%Rec	1	8/16/2022 9:55:05 PM
Surr: Toluene-d8	101	70-130	%Rec	1	8/16/2022 9:55:05 PM
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/16/2022 9:55:05 PM
Surr: BFB	121	70-130	%Rec	1	8/16/2022 9:55:05 PM

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

Qualifiers:

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

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Lab Order 2208875

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-17 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/11/2022 10:55:00 AM

 Lab ID:
 2208875-012
 Matrix: SOIL
 Received Date: 8/13/2022 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/17/2022 10:13:40 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 8/17/2022 10:13:40 AM Surr: DNOP 101 21-129 %Rec 1 8/17/2022 10:13:40 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 61 8/16/2022 8:42:52 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: BRM ND 0.024 mg/Kg 8/17/2022 12:46:56 AM 1 Toluene ND 0.048 mg/Kg 8/17/2022 12:46:56 AM 1 Ethylbenzene ND 0.048 mg/Kg 1 8/17/2022 12:46:56 AM Xylenes, Total ND 0.095 mg/Kg 1 8/17/2022 12:46:56 AM Surr: 1.2-Dichloroethane-d4 107 70-130 %Rec 1 8/17/2022 12:46:56 AM Surr: 4-Bromofluorobenzene 105 70-130 %Rec 1 8/17/2022 12:46:56 AM Surr: Dibromofluoromethane 70-130 %Rec 1 8/17/2022 12:46:56 AM 117 Surr: Toluene-d8 101 70-130 %Rec 1 8/17/2022 12:46:56 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/17/2022 12:46:56 AM 48 mg/Kg 1

116

70-130

%Rec

1

8/17/2022 12:46:56 AM

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

Qualifiers:

Surr: BFB

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

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Lab Order **2208875**Date Reported: **8/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-09 6'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/11/2022 11:00:00 AM

 Lab ID:
 2208875-013
 Matrix: SOIL
 Received Date: 8/13/2022 7:40:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	25	14	mg/Kg	1	8/17/2022 10:55:21 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/17/2022 10:55:21 AM
Surr: DNOP	89.5	21-129	%Rec	1	8/17/2022 10:55:21 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	1600	60	mg/Kg	20	8/16/2022 8:55:12 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	•				Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	8/17/2022 1:15:31 AM
Toluene	ND	0.047	mg/Kg	1	8/17/2022 1:15:31 AM
Ethylbenzene	ND	0.047	mg/Kg	1	8/17/2022 1:15:31 AM
Xylenes, Total	ND	0.095	mg/Kg	1	8/17/2022 1:15:31 AM
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	8/17/2022 1:15:31 AM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/17/2022 1:15:31 AM
Surr: Dibromofluoromethane	115	70-130	%Rec	1	8/17/2022 1:15:31 AM
Surr: Toluene-d8	98.6	70-130	%Rec	1	8/17/2022 1:15:31 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/17/2022 1:15:31 AM
Surr: BFB	120	70-130	%Rec	1	8/17/2022 1:15:31 AM

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

Qualifiers:

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

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Lab Order **2208875**Date Reported: **8/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-10 6'

Project: Onyx 29 CTB1 Separator Collection Date: 8/11/2022 11:05:00 AM

Lab ID: 2208875-014 **Matrix:** SOIL **Received Date:** 8/13/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	100	15	mg/Kg	1	8/17/2022 9:54:52 AM
Motor Oil Range Organics (MRO)	62	50	mg/Kg	1	8/17/2022 9:54:52 AM
Surr: DNOP	95.5	21-129	%Rec	1	8/17/2022 9:54:52 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	1800	60	mg/Kg	20	8/16/2022 9:07:33 PM
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	8/17/2022 1:44:03 AM
Toluene	ND	0.048	mg/Kg	1	8/17/2022 1:44:03 AM
Ethylbenzene	ND	0.048	mg/Kg	1	8/17/2022 1:44:03 AM
Xylenes, Total	ND	0.095	mg/Kg	1	8/17/2022 1:44:03 AM
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	8/17/2022 1:44:03 AM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	8/17/2022 1:44:03 AM
Surr: Dibromofluoromethane	119	70-130	%Rec	1	8/17/2022 1:44:03 AM
Surr: Toluene-d8	99.3	70-130	%Rec	1	8/17/2022 1:44:03 AM
EPA METHOD 8015D MOD: GASOLINE RAN	GE				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/17/2022 1:44:03 AM
Surr: BFB	117	70-130	%Rec	1	8/17/2022 1:44:03 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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

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Lab Order **2208875**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/22/2022

CLIENT: Devon Energy Client Sample ID: BES22-11 6'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/11/2022 11:10:00 AM

 Lab ID:
 2208875-015
 Matrix: SOIL
 Received Date: 8/13/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/17/2022 10:18:35 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/17/2022 10:18:35 AM
Surr: DNOP	93.4	21-129	%Rec	1	8/17/2022 10:18:35 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	110	59	mg/Kg	20	8/16/2022 9:19:54 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	8/17/2022 2:12:39 AM
Toluene	ND	0.049	mg/Kg	1	8/17/2022 2:12:39 AM
Ethylbenzene	ND	0.049	mg/Kg	1	8/17/2022 2:12:39 AM
Xylenes, Total	ND	0.098	mg/Kg	1	8/17/2022 2:12:39 AM
Surr: 1,2-Dichloroethane-d4	111	70-130	%Rec	1	8/17/2022 2:12:39 AM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	8/17/2022 2:12:39 AM
Surr: Dibromofluoromethane	120	70-130	%Rec	1	8/17/2022 2:12:39 AM
Surr: Toluene-d8	99.3	70-130	%Rec	1	8/17/2022 2:12:39 AM
EPA METHOD 8015D MOD: GASOLINE RANG	GE .				Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/17/2022 2:12:39 AM
Surr: BFB	114	70-130	%Rec	1	8/17/2022 2:12:39 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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

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Analytical Report

Lab Order 2208875

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BES22-12 6'

Project: Onyx 29 CTB1 Separator Collection Date: 8/11/2022 11:15:00 AM

Lab ID: 2208875-016 **Matrix:** SOIL **Received Date:** 8/13/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/16/2022 11:15:48 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/16/2022 11:15:48 AM
Surr: DNOP	89.6	21-129	%Rec	1	8/16/2022 11:15:48 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/17/2022 2:11:02 PM
Surr: BFB	105	37.7-212	%Rec	1	8/17/2022 2:11:02 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	8/16/2022 8:26:29 PM
Toluene	ND	0.050	mg/Kg	1	8/16/2022 8:26:29 PM
Ethylbenzene	ND	0.050	mg/Kg	1	8/16/2022 8:26:29 PM
Xylenes, Total	ND	0.099	mg/Kg	1	8/16/2022 8:26:29 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/16/2022 8:26:29 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/16/2022 9:32:15 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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

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Lab Order **2208875**

Hall Environmental Analysis Laboratory, Inc. Date Reported: 8/22/2022

CLIENT: Devon Energy Client Sample ID: BES22-13 6'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/11/2022 11:20:00 AM

 Lab ID:
 2208875-017
 Matrix: SOIL
 Received Date: 8/13/2022 7:40:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/16/2022 11:29:49 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/16/2022 11:29:49 AM
Surr: DNOP	93.1	21-129	%Rec	1	8/16/2022 11:29:49 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/17/2022 2:34:48 PM
Surr: BFB	108	37.7-212	%Rec	1	8/17/2022 2:34:48 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	8/16/2022 9:37:14 PM
Toluene	ND	0.049	mg/Kg	1	8/16/2022 9:37:14 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/16/2022 9:37:14 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/16/2022 9:37:14 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/16/2022 9:37:14 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	97	60	mg/Kg	20	8/16/2022 10:09:17 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208875 22-Aug-22**

Client: Devon Energy

Project: Onyx 29 CTB1 Separator

Sample ID: MB-69543 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 69543 RunNo: 90330

Prep Date: 8/16/2022 Analysis Date: 8/16/2022 SeqNo: 3222397 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-69543 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69543 RunNo: 90330

Prep Date: 8/16/2022 Analysis Date: 8/16/2022 SeqNo: 3222398 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 97.1 90 110

Sample ID: MB-69530 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 69530 RunNo: 90309

Prep Date: 8/16/2022 Analysis Date: 8/16/2022 SeqNo: 3222751 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-69530 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69530 RunNo: 90309

Prep Date: 8/16/2022 Analysis Date: 8/16/2022 SeqNo: 3222752 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.0 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

22-Aug-22

2208875

WO#:

Client: Devon Energy

Project: Onyx 29 CTB1 Separator

Sample ID: MB-69521 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 69521 RunNo: 90276

Prep Date: 8/16/2022 Analysis Date: 8/16/2022 SeqNo: 3221703 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO) ND 15

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 8.8 10.00 87.7 21 129

Sample ID: LCS-69521 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 69521 RunNo: 90276

Prep Date: 8/16/2022 Analysis Date: 8/16/2022 SeqNo: 3221704 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 15 43 50.00 86.6 64.4 127 Surr: DNOP 3.6 5.000 72.9 21 129

Sample ID: MB-69519 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 69519 RunNo: 90333

Prep Date: 8/15/2022 Analysis Date: 8/17/2022 SeqNo: 3222874 Units: mg/Kg

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

 Diesel Range Organics (DRO)
 ND
 15

 Motor Oil Range Organics (MRO)
 ND
 50

 Surr: DNOP
 8.7
 10.00
 86.9
 21
 129

Sample ID: LCS-69519 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 69519 RunNo: 90333

Prep Date: 8/15/2022 Analysis Date: 8/17/2022 SeqNo: 3222875 Units: mg/Kg

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

Diesel Range Organics (DRO) 44 15 50.00 0 87.6 64.4 127
Surr: DNOP 4.2 5.000 84.4 21 129

Sample ID: 2208875-002AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **WES22-12 4'** Batch ID: **69519** RunNo: **90347**

Prep Date: 8/15/2022 Analysis Date: 8/17/2022 SeqNo: 3226236 Units: mg/Kg

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result **PQL** %REC LowLimit HighLimit Qual Diesel Range Organics (DRO) 57 15 14.00 88.3 36.1 48.83 154

Surr: DNOP 6.6 4.883 134 21 129 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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208875**

Qual

22-Aug-22

Client: Devon Energy

Project: Onyx 29 CTB1 Separator

Sample ID: 2208875-002AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: WES22-12 4' Batch ID: 69519 RunNo: 90347

Prep Date: 8/15/2022 Analysis Date: 8/17/2022 SeqNo: 3226237 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	
Diesel Range Organics (DRO)	51	15	48.88	14.00	75.4	36.1	154	11.6	33.9	
Surr: DNOP	5.8		4.888		118	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 Quanitative Limit
- 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208875**

22-Aug-22

Client: Devon Energy

Project: Onyx 29 CTB1 Separator

Sample ID: mb-69518 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **69518** RunNo: **90345**

Prep Date: 8/15/2022 Analysis Date: 8/17/2022 SeqNo: 3223615 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 105 37.7 212

Sample ID: Ics-69518 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 69518 RunNo: 90345

Prep Date: 8/15/2022 Analysis Date: 8/17/2022 SeqNo: 3223616 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 5.0 25.00 O 104 72.3 137

Surr: BFB 2100 1000 210 37.7 212

Sample ID: 2208875-016ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BES22-12 6'** Batch ID: **69518** RunNo: **90345**

Prep Date: 8/15/2022 Analysis Date: 8/17/2022 SeqNo: 3223618 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 28 4.8 24.18 0 116 70 130 Surr: BFB S 221 2100 967.1 37.7 212

Sample ID: 2208875-016amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BES22-12 6' Batch ID: 69518 RunNo: 90345

Prep Date: 8/15/2022 Analysis Date: 8/17/2022 SeqNo: 3223619 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** PQL LowLimit Qual 5.30 Gasoline Range Organics (GRO) 27 4.9 24.61 108 70 130 20 Surr: BFB 2100 984.3 215 37.7 212 0 0 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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2208875

22-Aug-22

Client: Devon Energy

Project: Onyx 29 CTB1 Separator

Sample ID: mb-69518 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 69518 RunNo: 90310

Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3222136 Units: mg/Kg

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

Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 105 70 130

Sample ID: LCS-69518 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 69518 RunNo: 90310

Prep Date: 8/15/2022	Analysis Date: 8/16/2022			8	SeqNo: 3	222137	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.4	80	120			
Toluene	0.97	0.050	1.000	0	96.8	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.7	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	70	130			

Sample ID: 2208875-017ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: BES22-13 6' Batch ID: 69518 RunNo: 90310 Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3222140 Units: mg/Kg mit Qual

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLim
Benzene	1.0	0.024	0.9542	0	109	68.8	120		
Toluene	1.1	0.048	0.9542	0	114	73.6	124		
Ethylbenzene	1.1	0.048	0.9542	0	115	72.7	129		
Xylenes, Total	3.3	0.095	2.863	0	115	75.7	126		
Surr: 4-Bromofluorobenzene	1.0		0.9542		107	70	130		

Sample ID: 2208875-017amsd TestCode: EPA Method 8021B: Volatiles SampType: MSD

Client ID: BES22-13 6' Batch ID: 69518 RunNo: 90310

Prep Date: 8/15/2022	Analysis D	Date: 8/	16/2022	S	SeqNo: 3222141			g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.024	0.9524	0	103	68.8	120	6.28	20	
Toluene	1.0	0.048	0.9524	0	107	73.6	124	6.63	20	
Ethylbenzene	1.0	0.048	0.9524	0	108	72.7	129	6.97	20	
Xylenes, Total	3.1	0.095	2.857	0	107	75.7	126	7.46	20	
Surr: 4-Bromofluorobenzene	1.0		0.9524		107	70	130	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Estimated value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 22 of 24

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208875 22-**Aug-22

Client: Devon Energy

Project: Onyx 29 CTB1 Separator

Sample ID: Ics-69509	SampT	ype: LC	S4	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: BatchQC	Batch	n ID: 69	509	F	RunNo: 90	0315				
Prep Date: 8/15/2022	Analysis D	Date: 8/	16/2022	S	SeqNo: 3	222198	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.1	80	120			
Toluene	0.94	0.050	1.000	0	93.5	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.6	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.9	80	120			
Surr: 1,2-Dichloroethane-d4	0.53		0.5000		106	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		107	70	130			
Surr: Dibromofluoromethane	0.60		0.5000		120	70	130			
Surr: Toluene-d8	0.50		0.5000		99.2	70	130			

Sample ID: mb-69509	Sampl	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batcl	h ID: 69	509	F	RunNo: 9	0315				
Prep Date: 8/15/2022	Analysis D	Date: 8/	16/2022	S	SeqNo: 3	222199	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		104	70	130			
Surr: 4-Bromofluorobenzene	0.52		0.5000		103	70	130			
Surr: Dibromofluoromethane	0.60		0.5000		120	70	130			
Surr: Toluene-d8	0.50		0.5000		99.7	70	130			

Qualifiers:

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

Page 23 of 24

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208875 22-Aug-22**

Client: Devon Energy

Project: Onyx 29 CTB1 Separator

Sample ID: Ics-69509 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: LCSS Batch ID: 69509 RunNo: 90315

Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3222224 Units: mg/Kg

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

 Gasoline Range Organics (GRO)
 24
 5.0
 25.00
 0
 95.1
 70
 130

 Surr: BFB
 580
 500.0
 115
 70
 130

Sample ID: mb-69509 SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range

Client ID: PBS Batch ID: 69509 RunNo: 90315

Prep Date: 8/15/2022 Analysis Date: 8/16/2022 SeqNo: 3222225 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 590 500.0 118 70 130

Qualifiers:

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

Page 24 of 24



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:	Devon Energy	Work Order Num	ber: 220	8875		RcptNo: 1
Received By:	Juan Rojas	8/13/2022 7:40:00	AM		- Marsay	
Completed By:	Juan Rojas	8/13/2022 9:01:05	AM		Hanay	
Reviewed By:	The	8/13/22				
Chain of Cus	stody					
1. Is Chain of C	custody complete?		Yes	~	No 🖂	Not Present
2. How was the	sample delivered?		Cou	rier		
Log In						
The second secon	npt made to cool the sai	mples?	Yes	V	No 🗌	NA 🗆
4. Were all sam	ples received at a tempe	erature of >0° C to 6.0°C	Yes	•	No 🗌	NA 🗆
5. Sample(s) in	proper container(s)?		Yes	•	No 🗆	
6. Sufficient sam	nple volume for indicated	test(s)?	Yes	~	No 🗆	
7. Are samples ((except VOA and ONG)	properly preserved?	Yes	~	No 🗆	
8. Was preserva	ative added to bottles?		Yes		No 🗸	NA 🗆
9. Received at le	east 1 vial with headspa	ce <1/4" for AQ VOA?	Yes		No 🗌	NA 🗹
10. Were any sar	mple containers received	d broken?	Yes		No 🗸	# of preserved
	ork match bottle labels? ancies on chain of custo	dy)	Yes	✓	No 🗆	bottles checked for pH: (<2 or >12 unless note
	correctly identified on Cl		Yes	~	No 🔲	Adjusted?
13. Is it clear wha	t analyses were request	ed?	Yes	~	No 🗆	
	ng times able to be met ustomer for authorizatio		Yes	~	No 🗆	Checked by: 518113
Special Handl	ling (if applicable)					
15. Was client no	otified of all discrepancie	s with this order?	Yes		No 🗌	NA 🗹
Person	Notified:	Date				
By Who		Via:	☐ eM	ail 🗌	Phone Fax	☐ In Person
Regard	1.70					
Client I	nstructions;					
16. Additional re	marks:					
17. Cooler Infor Cooler No		n Seal Intact Seal No	Seal D	ate	Signed By	

ا	hain	-of-C	Chain-of-Custody Record	Turn-Around Time:	166	660-2		ì		M	100	ENVIDONMENTAL
Client:	7	Devonluctex	CELX	□ Standard	Rush	ļ		46		STA	AB	ANAI YSTS I ABODATODA
				Project Name:					relled w	, direction	MANA hallenvironmental com	201820
lailing	Mailing Address:	8	File	xhuo	29 CT81	/ LSeParator)	4901	4901 Hawkins NE	0	Ibuque	Albuquerque, NM 87109	37109
		,		Project #:			Tel	505-345-3975		Fax 5	505-345-4107	07
Phone #:	#:			722	226-01720-002	-902			Ana		Request	
nail o	email or Fax#:	_		Project Manager	iger:				ļ		(11	
QA/QC	QA/QC Package:		7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Kent	Stamps	560			S '†O	2.162	nəsdA	
Ola		1	Cevel 4 (Full Validation)				ОЯ			001	дu	
Accreditation NEI AC	on:	Az Con	npliance	Sampler: C\(\infty\)	7		a / c	(1.4				
EDD	(pd)			# of Coolers.	1,-	2	SRC	09 F	als			
				Cooler Temp	(including CF):	Cooler Temp(including cF): Ccl For / = as (°C)	2D(oqte	Met	(AC		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	220887 (08:H9T	8081 Pe EDB (Ma (d sHA9	8 ARJA	v) 09Z8	82) 0728 Total Co	
1118	10:00	5011	WESET-12 2'		ICE	100	>					
	10:05	-	WESZZ-12 4'		1	2007	-					
	10:10		WES22-13 2'			5005						
	10:15		WESZZ-13 4"			h00-						
	10:20	7.5	WESZ2-14 2"			200-						
	10:25		WES22-14 4			700-						
	10:30		WESZZ-15 2'			4007						
	10:35		WESZZ-15 41			300						
	10:40		, 2 91-22577			-Orsy						
	10:45		WESZZ-16 4,			and						
	10:50		WESTS-17 2'			100						
	5		WESZZ-17 41	1		210-						
Date:	Time:	Relinquished by:	ed by:	-	Via:	Date Time	Remarks: CC.C.	3. CC . C	121X	e Dixon	202	
		Relinquished by:	ed by:	Received by:	Via:	Date Time	110	2012:40	٧,	51.86		
211211	3	() FILLAN	5	1	111113	子によっている						

Mailing Address:	Standard Strush Project Name: Oryt 29 C78/ Project Manager: **Rent Stallings** Cooler Temp(motuding CF): (1.4) Cooler Temp(motud		(DAM \ OAO \ DRO \ DRO \ DRO \ DRO \ DRO \ OAO \	EDB (Method 504.1)		ANALYSING Www.hallenvironme Rins NE - Albuquer Analysis NE - Albuquer Analysis NE - Albuquer Analysis NE - Albuquer Analysis NE - Analysis NE	MALYSIS LABORATOR Www.hallenvironmental.com In NR - Albuquerque, NM 87109 Fax 505-345-4107 Analysis Request Col. Ft, Br, NO ₂ , PO ₄ , SO ₄ Col. Ft, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ Analysis Request Total Coliform (Present/Absent) Total Coliform (Present/Absent)	ived by OCD: 11/1/2022 7:35:26 AM
Time: Relinquished by:	Received by: Via:	Six 3 920	Remarks: CC : Chance		hance	Dixon	<u> </u>	Pa
Date: Time: Relinquished by:	Received by: Via:	2	. 4	Direct Bill Jevon 110# \$21029815	+ B.7	17	<i>u</i> .	Page 178 o

Analytical ReportLab Order **2208917**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-19 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/12/2022 1:00:00 PM

 Lab ID:
 2208917-001
 Matrix: SOIL
 Received Date: 8/16/2022 7:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/17/2022 10:26:43 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/17/2022 10:26:43 PM
Surr: DNOP	101	21-129	%Rec	1	8/17/2022 10:26:43 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	140	60	mg/Kg	20	8/17/2022 8:45:28 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	Т				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/17/2022 12:59:27 PM
Toluene	ND	0.048	mg/Kg	1	8/17/2022 12:59:27 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/17/2022 12:59:27 PM
Xylenes, Total	ND	0.096	mg/Kg	1	8/17/2022 12:59:27 PM
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	8/17/2022 12:59:27 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/17/2022 12:59:27 PM
Surr: Dibromofluoromethane	121	70-130	%Rec	1	8/17/2022 12:59:27 PM
Surr: Toluene-d8	97.7	70-130	%Rec	1	8/17/2022 12:59:27 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/17/2022 12:59:27 PM
Surr: BFB	122	70-130	%Rec	1	8/17/2022 12:59:27 PM

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

Qualifiers:

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

Page 1 of 0

Analytical Report Lab Order 2208917

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-21 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/12/2022 1:10:00 PM

 Lab ID:
 2208917-002
 Matrix: SOIL
 Received Date: 8/16/2022 7:25:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/17/2022 10:42:38 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/17/2022 10:42:38 PM
Surr: DNOP	94.9	21-129	%Rec	1	8/17/2022 10:42:38 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	100	59	mg/Kg	20	8/17/2022 8:57:49 PM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/17/2022 2:25:40 PM
Toluene	ND	0.048	mg/Kg	1	8/17/2022 2:25:40 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/17/2022 2:25:40 PM
Xylenes, Total	ND	0.096	mg/Kg	1	8/17/2022 2:25:40 PM
Surr: 1,2-Dichloroethane-d4	109	70-130	%Rec	1	8/17/2022 2:25:40 PM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	8/17/2022 2:25:40 PM
Surr: Dibromofluoromethane	121	70-130	%Rec	1	8/17/2022 2:25:40 PM
Surr: Toluene-d8	98.8	70-130	%Rec	1	8/17/2022 2:25:40 PM
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/17/2022 2:25:40 PM
Surr: BFB	118	70-130	%Rec	1	8/17/2022 2:25:40 PM

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

Qualifiers:

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

Page 2 of 0

Analytical ReportLab Order **2208917**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-25 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/12/2022 1:20:00 PM

 Lab ID:
 2208917-003
 Matrix: SOIL
 Received Date: 8/16/2022 7:25:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/17/2022 10:58:16 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/17/2022 10:58:16 PM
Surr: DNOP	93.2	21-129	%Rec	1	8/17/2022 10:58:16 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	120	60	mg/Kg	20	8/17/2022 9:10:10 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	Т				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/17/2022 3:52:03 PM
Toluene	ND	0.049	mg/Kg	1	8/17/2022 3:52:03 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/17/2022 3:52:03 PM
Xylenes, Total	ND	0.097	mg/Kg	1	8/17/2022 3:52:03 PM
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	8/17/2022 3:52:03 PM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	8/17/2022 3:52:03 PM
Surr: Dibromofluoromethane	118	70-130	%Rec	1	8/17/2022 3:52:03 PM
Surr: Toluene-d8	94.9	70-130	%Rec	1	8/17/2022 3:52:03 PM
EPA METHOD 8015D MOD: GASOLINE RANGE	≣				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/17/2022 3:52:03 PM
Surr: BFB	117	70-130	%Rec	1	8/17/2022 3:52:03 PM

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

Qualifiers:

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

Page 3 of 0



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

August 23, 2022

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

FAX:

RE: Onyx 29 CTB1 Separator OrderNo.: 2208A05

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 20 sample(s) on 8/17/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-26 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 9:00:00 AM

 Lab ID:
 2208A05-001
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 5:05:39 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/18/2022 5:05:39 PM Surr: DNOP 105 21-129 %Rec 1 8/18/2022 5:05:39 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 140 60 8/18/2022 2:36:24 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.025 8/18/2022 12:27:18 PM mg/Kg 1 Toluene ND 8/18/2022 12:27:18 PM 0.050 mg/Kg 1 Ethylbenzene ND 0.050 mg/Kg 1 8/18/2022 12:27:18 PM Xylenes, Total ND 0.10 mg/Kg 1 8/18/2022 12:27:18 PM Surr: 1,2-Dichloroethane-d4 109 %Rec 8/18/2022 12:27:18 PM 70-130 1 Surr: 4-Bromofluorobenzene 103 70-130 %Rec 1 8/18/2022 12:27:18 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 12:27:18 PM 118 Surr: Toluene-d8 102 70-130 %Rec 1 8/18/2022 12:27:18 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 12:27:18 PM 5.0 1 Surr: BFB 122 70-130 %Rec 1 8/18/2022 12:27:18 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-27 2'

Project: Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:05:00 AM Lab ID: 2208A05-002 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/18/2022 5:49:07 PM Motor Oil Range Organics (MRO) 8/18/2022 5:49:07 PM ND 50 mg/Kg 1 Surr: DNOP 59.3 21-129 %Rec 1 8/18/2022 5:49:07 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 68 60 8/18/2022 3:38:28 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR 0.024 8/18/2022 1:53:19 PM ND mg/Kg 1 Toluene ND 8/18/2022 1:53:19 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/18/2022 1:53:19 PM Xylenes, Total ND 0.098 mg/Kg 1 8/18/2022 1:53:19 PM Surr: 1,2-Dichloroethane-d4 70-130 %Rec 8/18/2022 1:53:19 PM 110 1 Surr: 4-Bromofluorobenzene 103 70-130 %Rec 1 8/18/2022 1:53:19 PM Surr: Dibromofluoromethane 120 70-130 %Rec 1 8/18/2022 1:53:19 PM Surr: Toluene-d8 101 70-130 %Rec 1 8/18/2022 1:53:19 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 1:53:19 PM 49 1 Surr: BFB 120 70-130 %Rec 1 8/18/2022 1:53:19 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range RL

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-28 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 9:10:00 AM

 Lab ID:
 2208A05-003
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 6:04:09 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/18/2022 6:04:09 PM Surr: DNOP 95.0 21-129 %Rec 1 8/18/2022 6:04:09 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 8/18/2022 4:15:41 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.025 8/18/2022 3:19:30 PM mg/Kg 1 Toluene ND 8/18/2022 3:19:30 PM 0.050 mg/Kg 1 Ethylbenzene ND 0.050 mg/Kg 1 8/18/2022 3:19:30 PM Xylenes, Total ND 0.099 mg/Kg 1 8/18/2022 3:19:30 PM Surr: 1,2-Dichloroethane-d4 104 70-130 %Rec 8/18/2022 3:19:30 PM 1 Surr: 4-Bromofluorobenzene 106 70-130 %Rec 1 8/18/2022 3:19:30 PM Surr: Dibromofluoromethane 120 70-130 %Rec 1 8/18/2022 3:19:30 PM Surr: Toluene-d8 99.3 70-130 %Rec 1 8/18/2022 3:19:30 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 3:19:30 PM 5.0 1 Surr: BFB 122 70-130 %Rec 1 8/18/2022 3:19:30 PM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-29 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 9:15:00 AM

 Lab ID:
 2208A05-004
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses Analyst: **DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 6:19:19 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/18/2022 6:19:19 PM Surr: DNOP 92.6 21-129 %Rec 1 8/18/2022 6:19:19 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 8/20/2022 2:57:23 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 3:48:12 PM mg/Kg 1 Toluene ND 8/18/2022 3:48:12 PM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 8/18/2022 3:48:12 PM Xylenes, Total ND 0.095 mg/Kg 1 8/18/2022 3:48:12 PM Surr: 1,2-Dichloroethane-d4 108 70-130 %Rec 8/18/2022 3:48:12 PM 1 Surr: 4-Bromofluorobenzene 103 70-130 %Rec 1 8/18/2022 3:48:12 PM Surr: Dibromofluoromethane 122 70-130 %Rec 1 8/18/2022 3:48:12 PM Surr: Toluene-d8 96.0 70-130 %Rec 1 8/18/2022 3:48:12 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 3:48:12 PM 4 8 1 Surr: BFB 115 70-130 %Rec 1 8/18/2022 3:48:12 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of 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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-30 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 9:20:00 AM

 Lab ID:
 2208A05-005
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 6:34:52 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/18/2022 6:34:52 PM
Surr: DNOP	93.4	21-129	%Rec	1	8/18/2022 6:34:52 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	150	60	mg/Kg	20	8/20/2022 3:59:26 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/18/2022 4:16:52 PM
Toluene	ND	0.048	mg/Kg	1	8/18/2022 4:16:52 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/18/2022 4:16:52 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/18/2022 4:16:52 PM
Surr: 1,2-Dichloroethane-d4	110	70-130	%Rec	1	8/18/2022 4:16:52 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/18/2022 4:16:52 PM
Surr: Dibromofluoromethane	123	70-130	%Rec	1	8/18/2022 4:16:52 PM
Surr: Toluene-d8	98.7	70-130	%Rec	1	8/18/2022 4:16:52 PM
EPA METHOD 8015D MOD: GASOLINE RANG	Ε				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/18/2022 4:16:52 PM
Surr: BFB	119	70-130	%Rec	1	8/18/2022 4:16:52 PM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-31 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 9:25:00 AM

 Lab ID:
 2208A05-006
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 6:50:16 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/18/2022 6:50:16 PM Surr: DNOP 85.4 21-129 %Rec 1 8/18/2022 6:50:16 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 71 60 8/20/2022 4:11:51 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 4:45:35 PM mg/Kg 1 Toluene ND 8/18/2022 4:45:35 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/18/2022 4:45:35 PM Xylenes, Total ND 0.097 mg/Kg 1 8/18/2022 4:45:35 PM Surr: 1,2-Dichloroethane-d4 104 70-130 %Rec 8/18/2022 4:45:35 PM 1 Surr: 4-Bromofluorobenzene 103 70-130 %Rec 1 8/18/2022 4:45:35 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 4:45:35 PM 116 Surr: Toluene-d8 98.7 70-130 %Rec 1 8/18/2022 4:45:35 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 4:45:35 PM 49 1 Surr: BFB 121 70-130 %Rec 1 8/18/2022 4:45:35 PM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-32 2'

Project: Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:30:00 AM Lab ID: 2208A05-007 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 7:05:35 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 8/18/2022 7:05:35 PM Surr: DNOP 103 21-129 %Rec 1 8/18/2022 7:05:35 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 60 8/20/2022 4:24:16 PM 120 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 5:14:14 PM mg/Kg 1 Toluene ND 8/18/2022 5:14:14 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/18/2022 5:14:14 PM Xylenes, Total ND 0.097 mg/Kg 1 8/18/2022 5:14:14 PM Surr: 1,2-Dichloroethane-d4 105 70-130 %Rec 8/18/2022 5:14:14 PM 1 Surr: 4-Bromofluorobenzene 106 70-130 %Rec 1 8/18/2022 5:14:14 PM Surr: Dibromofluoromethane 120 70-130 %Rec 1 8/18/2022 5:14:14 PM Surr: Toluene-d8 100 70-130 %Rec 1 8/18/2022 5:14:14 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 5:14:14 PM 49 1 Surr: BFB 118 70-130 %Rec 1 8/18/2022 5:14:14 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range RL

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-15 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 9:35:00 AM

 Lab ID:
 2208A05-008
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 7:21:14 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/18/2022 7:21:14 PM
Surr: DNOP	119	21-129	%Rec	1	8/18/2022 7:21:14 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	200	60	mg/Kg	20	8/20/2022 4:36:41 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/18/2022 5:42:49 PM
Toluene	ND	0.047	mg/Kg	1	8/18/2022 5:42:49 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/18/2022 5:42:49 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/18/2022 5:42:49 PM
Surr: 1,2-Dichloroethane-d4	110	70-130	%Rec	1	8/18/2022 5:42:49 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/18/2022 5:42:49 PM
Surr: Dibromofluoromethane	118	70-130	%Rec	1	8/18/2022 5:42:49 PM
Surr: Toluene-d8	100	70-130	%Rec	1	8/18/2022 5:42:49 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/18/2022 5:42:49 PM
Surr: BFB	119	70-130	%Rec	1	8/18/2022 5:42:49 PM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-16 4'

Project: Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:40:00 AM Lab ID: 2208A05-009 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 7:36:33 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/18/2022 7:36:33 PM Surr: DNOP 92.9 21-129 %Rec 1 8/18/2022 7:36:33 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 460 60 8/20/2022 4:49:05 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 6:11:26 PM mg/Kg 1 Toluene ND 8/18/2022 6:11:26 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/18/2022 6:11:26 PM Xylenes, Total ND 0.097 mg/Kg 1 8/18/2022 6:11:26 PM Surr: 1,2-Dichloroethane-d4 104 70-130 %Rec 8/18/2022 6:11:26 PM 1 Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 8/18/2022 6:11:26 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 6:11:26 PM 118 Surr: Toluene-d8 102 70-130 %Rec 1 8/18/2022 6:11:26 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 6:11:26 PM 49 1 Surr: BFB 120 70-130 %Rec 1 8/18/2022 6:11:26 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range RL

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-17 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 9:45:00 AM

 Lab ID:
 2208A05-010
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 7:52:10 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/18/2022 7:52:10 PM
Surr: DNOP	108	21-129	%Rec	1	8/18/2022 7:52:10 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	83	60	mg/Kg	20	8/20/2022 5:01:30 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.025	mg/Kg	1	8/18/2022 6:40:02 PM
Toluene	ND	0.050	mg/Kg	1	8/18/2022 6:40:02 PM
Ethylbenzene	ND	0.050	mg/Kg	1	8/18/2022 6:40:02 PM
Xylenes, Total	ND	0.10	mg/Kg	1	8/18/2022 6:40:02 PM
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	8/18/2022 6:40:02 PM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	8/18/2022 6:40:02 PM
Surr: Dibromofluoromethane	118	70-130	%Rec	1	8/18/2022 6:40:02 PM
Surr: Toluene-d8	98.6	70-130	%Rec	1	8/18/2022 6:40:02 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/18/2022 6:40:02 PM
Surr: BFB	121	70-130	%Rec	1	8/18/2022 6:40:02 PM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-18 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 9:50:00 AM

 Lab ID:
 2208A05-011
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qua	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 8:07:19 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 8:07:19 PM
Surr: DNOP	76.5	21-129	%Rec	1	8/18/2022 8:07:19 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	64	60	mg/Kg	20	8/18/2022 5:18:21 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/18/2022 7:08:43 PM
Toluene	ND	0.048	mg/Kg	1	8/18/2022 7:08:43 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/18/2022 7:08:43 PM
Xylenes, Total	ND	0.097	mg/Kg	1	8/18/2022 7:08:43 PM
Surr: 1,2-Dichloroethane-d4	107	70-130	%Rec	1	8/18/2022 7:08:43 PM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	8/18/2022 7:08:43 PM
Surr: Dibromofluoromethane	116	70-130	%Rec	1	8/18/2022 7:08:43 PM
Surr: Toluene-d8	101	70-130	%Rec	1	8/18/2022 7:08:43 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/18/2022 7:08:43 PM
Surr: BFB	118	70-130	%Rec	1	8/18/2022 7:08:43 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of 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

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Date Reported: 8/23/2022

8/18/2022 7:37:18 PM

8/18/2022 7:37:18 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-19 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 9:55:00 AM

 Lab ID:
 2208A05-012
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 8:22:35 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/18/2022 8:22:35 PM Surr: DNOP 101 21-129 %Rec 1 8/18/2022 8:22:35 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 260 60 8/18/2022 6:20:04 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR 0.025 8/18/2022 7:37:18 PM ND mg/Kg 1 Toluene ND 8/18/2022 7:37:18 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/18/2022 7:37:18 PM Xylenes, Total ND 0.098 mg/Kg 1 8/18/2022 7:37:18 PM Surr: 1,2-Dichloroethane-d4 108 70-130 %Rec 8/18/2022 7:37:18 PM 1 Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 8/18/2022 7:37:18 PM Surr: Dibromofluoromethane 122 70-130 %Rec 1 8/18/2022 7:37:18 PM Surr: Toluene-d8 98.9 70-130 %Rec 1 8/18/2022 7:37:18 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR

ND

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

Qualifiers:

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

mg/Kg

%Rec

1

1

49

70-130

- P Sample pH Not In Range
- RL Reporting Limit

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Gasoline Range Organics (GRO)

Surr: BFB

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-20 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 10:00:00 AM

 Lab ID:
 2208A05-013
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 8:37:46 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 8:37:46 PM
Surr: DNOP	86.5	21-129	%Rec	1	8/18/2022 8:37:46 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	130	60	mg/Kg	20	8/18/2022 6:57:06 PM
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	8/18/2022 8:05:54 PM
Toluene	ND	0.050	mg/Kg	1	8/18/2022 8:05:54 PM
Ethylbenzene	ND	0.050	mg/Kg	1	8/18/2022 8:05:54 PM
Xylenes, Total	ND	0.099	mg/Kg	1	8/18/2022 8:05:54 PM
Surr: 1,2-Dichloroethane-d4	110	70-130	%Rec	1	8/18/2022 8:05:54 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	8/18/2022 8:05:54 PM
Surr: Dibromofluoromethane	116	70-130	%Rec	1	8/18/2022 8:05:54 PM
Surr: Toluene-d8	98.4	70-130	%Rec	1	8/18/2022 8:05:54 PM
EPA METHOD 8015D MOD: GASOLINE RAN	IGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/18/2022 8:05:54 PM
Surr: BFB	120	70-130	%Rec	1	8/18/2022 8:05:54 PM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-21 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 10:05:00 AM

 Lab ID:
 2208A05-014
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	8/18/2022 8:52:56 PM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	8/18/2022 8:52:56 PM
Surr: DNOP	84.3	21-129	%Rec	1	8/18/2022 8:52:56 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	85	60	mg/Kg	20	8/18/2022 7:09:27 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/18/2022 8:34:30 PM
Toluene	ND	0.049	mg/Kg	1	8/18/2022 8:34:30 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/18/2022 8:34:30 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/18/2022 8:34:30 PM
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	1	8/18/2022 8:34:30 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	8/18/2022 8:34:30 PM
Surr: Dibromofluoromethane	121	70-130	%Rec	1	8/18/2022 8:34:30 PM
Surr: Toluene-d8	100	70-130	%Rec	1	8/18/2022 8:34:30 PM
EPA METHOD 8015D MOD: GASOLINE RANG	SE .				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/18/2022 8:34:30 PM
Surr: BFB	120	70-130	%Rec	1	8/18/2022 8:34:30 PM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-22 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 10:10:00 AM

 Lab ID:
 2208A05-015
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OI	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 9:08:12 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/18/2022 9:08:12 PM
Surr: DNOP	97.6	21-129	%Rec	1	8/18/2022 9:08:12 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	110	60	mg/Kg	20	8/18/2022 7:21:48 PM
EPA METHOD 8260B: VOLATILES SHORT I	LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/18/2022 9:03:05 PM
Toluene	ND	0.048	mg/Kg	1	8/18/2022 9:03:05 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/18/2022 9:03:05 PM
Xylenes, Total	ND	0.096	mg/Kg	1	8/18/2022 9:03:05 PM
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	8/18/2022 9:03:05 PM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	8/18/2022 9:03:05 PM
Surr: Dibromofluoromethane	116	70-130	%Rec	1	8/18/2022 9:03:05 PM
Surr: Toluene-d8	99.3	70-130	%Rec	1	8/18/2022 9:03:05 PM
EPA METHOD 8015D MOD: GASOLINE RAM	NGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/18/2022 9:03:05 PM
Surr: BFB	118	70-130	%Rec	1	8/18/2022 9:03:05 PM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-33 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 11:30:00 AM

 Lab ID:
 2208A05-016
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 9:23:14 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 9:23:14 PM
Surr: DNOP	99.5	21-129	%Rec	1	8/18/2022 9:23:14 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/18/2022 7:34:10 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/18/2022 9:31:40 PM
Toluene	ND	0.047	mg/Kg	1	8/18/2022 9:31:40 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/18/2022 9:31:40 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/18/2022 9:31:40 PM
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	1	8/18/2022 9:31:40 PM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/18/2022 9:31:40 PM
Surr: Dibromofluoromethane	118	70-130	%Rec	1	8/18/2022 9:31:40 PM
Surr: Toluene-d8	102	70-130	%Rec	1	8/18/2022 9:31:40 PM
EPA METHOD 8015D MOD: GASOLINE RANGE	≣				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/18/2022 9:31:40 PM
Surr: BFB	124	70-130	%Rec	1	8/18/2022 9:31:40 PM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-33 4

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 11:35:00 AM

 Lab ID:
 2208A05-017
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 9:38:21 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/18/2022 9:38:21 PM Surr: DNOP 104 21-129 %Rec 1 8/18/2022 9:38:21 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 60 8/18/2022 7:46:30 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 10:00:17 PM mg/Kg 1 Toluene ND 8/18/2022 10:00:17 PM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 8/18/2022 10:00:17 PM Xylenes, Total ND 0.095 mg/Kg 1 8/18/2022 10:00:17 PM Surr: 1,2-Dichloroethane-d4 103 70-130 %Rec 8/18/2022 10:00:17 PM 1 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 8/18/2022 10:00:17 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 10:00:17 PM 115 Surr: Toluene-d8 102 70-130 %Rec 1 8/18/2022 10:00:17 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 10:00:17 PM 4 8 1 Surr: BFB 118 70-130 %Rec 1 8/18/2022 10:00:17 PM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-34 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 11:40:00 AM

 Lab ID:
 2208A05-018
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 9:53:44 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 9:53:44 PM
Surr: DNOP	95.0	21-129	%Rec	1	8/18/2022 9:53:44 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/18/2022 8:23:32 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	8/19/2022 12:51:33 AM
Toluene	ND	0.049	mg/Kg	1	8/19/2022 12:51:33 AM
Ethylbenzene	ND	0.049	mg/Kg	1	8/19/2022 12:51:33 AM
Xylenes, Total	ND	0.098	mg/Kg	1	8/19/2022 12:51:33 AM
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	8/19/2022 12:51:33 AM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/19/2022 12:51:33 AM
Surr: Dibromofluoromethane	112	70-130	%Rec	1	8/19/2022 12:51:33 AM
Surr: Toluene-d8	98.8	70-130	%Rec	1	8/19/2022 12:51:33 AM
EPA METHOD 8015D MOD: GASOLINE RANG	iΕ				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/19/2022 12:51:33 AM
Surr: BFB	119	70-130	%Rec	1	8/19/2022 12:51:33 AM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-34 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 11:45:00 AM

 Lab ID:
 2208A05-019
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 10:09:38 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/18/2022 10:09:38 PM
Surr: DNOP	94.4	21-129	%Rec	1	8/18/2022 10:09:38 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	72	59	mg/Kg	20	8/18/2022 8:35:53 PM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/19/2022 1:20:01 AM
Toluene	ND	0.048	mg/Kg	1	8/19/2022 1:20:01 AM
Ethylbenzene	ND	0.048	mg/Kg	1	8/19/2022 1:20:01 AM
Xylenes, Total	ND	0.097	mg/Kg	1	8/19/2022 1:20:01 AM
Surr: 1,2-Dichloroethane-d4	107	70-130	%Rec	1	8/19/2022 1:20:01 AM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/19/2022 1:20:01 AM
Surr: Dibromofluoromethane	111	70-130	%Rec	1	8/19/2022 1:20:01 AM
Surr: Toluene-d8	99.2	70-130	%Rec	1	8/19/2022 1:20:01 AM
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/19/2022 1:20:01 AM
Surr: BFB	117	70-130	%Rec	1	8/19/2022 1:20:01 AM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-14 8'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 1:30:00 PM

 Lab ID:
 2208A05-020
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 10:25:10 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 10:25:10 PM
Surr: DNOP	88.6	21-129	%Rec	1	8/18/2022 10:25:10 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	80	60	mg/Kg	20	8/18/2022 8:48:14 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/19/2022 1:48:32 AM
Toluene	ND	0.048	mg/Kg	1	8/19/2022 1:48:32 AM
Ethylbenzene	ND	0.048	mg/Kg	1	8/19/2022 1:48:32 AM
Xylenes, Total	ND	0.096	mg/Kg	1	8/19/2022 1:48:32 AM
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	8/19/2022 1:48:32 AM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/19/2022 1:48:32 AM
Surr: Dibromofluoromethane	112	70-130	%Rec	1	8/19/2022 1:48:32 AM
Surr: Toluene-d8	99.2	70-130	%Rec	1	8/19/2022 1:48:32 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/19/2022 1:48:32 AM
Surr: BFB	116	70-130	%Rec	1	8/19/2022 1:48:32 AM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2208A05

23-Aug-22

Client: Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Separator

Sample ID: MB-69603 SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBS Batch ID: 69603 RunNo: 90384

Prep Date: 8/18/2022 Analysis Date: 8/18/2022 SeqNo: 3226290 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-69603 TestCode: EPA Method 300.0: Anions SampType: Ics Client ID: LCSS Batch ID: 69603 RunNo: 90384 Prep Date: 8/18/2022 Analysis Date: 8/18/2022 SeqNo: 3226292 Units: mg/Kg **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual

Chloride 14 1.5 15.00 95.4 90 110

Sample ID: MB-69613 SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBS Batch ID: 69613 RunNo: 90383 Prep Date: Analysis Date: 8/18/2022 8/18/2022 SeqNo: 3226631 Units: mg/Kg Result POI SPK value SPK Ref Val %REC %RPD **RPDLimit** Qual Analyte I owl imit HighLimit

Chloride ND

Sample ID: LCS-69613 SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 69613 RunNo: 90383 Prep Date: Analysis Date: 8/18/2022 8/18/2022 SeqNo: 3226632 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit Chloride 14 1.5 15.00 94.5 90

Sample ID: MB-69605 SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: Batch ID: 69605 RunNo: 90460 PRS Prep Date: 8/18/2022 Analysis Date: 8/20/2022 SeqNo: 3228049 Units: mg/Kg

SPK value SPK Ref Val

ND Chloride 1.5

Result

Sample ID: LCS-69605 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69605 RunNo: 90460

PQL

Prep Date: 8/18/2022 Analysis Date: 8/20/2022 SeqNo: 3228050 Units: mg/Kg SPK value **RPDLimit** Analyte Result PQL SPK Ref Val %REC LowLimit HighLimit %RPD Qual

Chloride 14 1.5

Qualifiers:

Analyte

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Estimated value

Analyte detected below quantitation limits

%REC

LowLimit

HighLimit

Sample pH Not In Range

RL Reporting Limit Page 21 of 25

RPDLimit

Qual

%RPD

Hall Environmental Analysis Laboratory, Inc.

Result

41

3.0

PQL

15

WO#:

2208A05 23-Aug-22

Client: Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Separator

Sample ID: MB-69585	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	ID: 695	585	F	RunNo: 90	0393				
Prep Date: 8/17/2022	Analysis D	ate: 8/	18/2022	5	SeqNo: 3	225979	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.0	21	129			
Sample ID: LCS-69585	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	ID: 695	585	F	RunNo: 90	0393				
Client ID: LCSS Prep Date: 8/17/2022	Batch Analysis D				RunNo: 90 SeqNo: 32		Units: mg/K	g		
							Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Prep Date: 8/17/2022	Analysis D	ate: 8/	18/2022	5	SeqNo: 32	225980	· ·	•	RPDLimit	Qual
Prep Date: 8/17/2022 Analyte	Analysis D Result	ate: 8/	18/2022 SPK value	SPK Ref Val	SeqNo: 3:	225980 LowLimit	HighLimit	•	RPDLimit	Qual
Prep Date: 8/17/2022 Analyte Diesel Range Organics (DRO)	Analysis D Result 55 5.4	ate: 8/	18/2022 SPK value 50.00 5.000	SPK Ref Val 0	SeqNo: 3: %REC 111 108	225980 LowLimit 64.4 21	HighLimit 127	%RPD		Qual
Prep Date: 8/17/2022 Analyte Diesel Range Organics (DRO) Surr: DNOP	Analysis D Result 55 5.4 SampT	PQL 15	SPK value 50.00 5.000	SPK Ref Val 0	SeqNo: 3: %REC 111 108	225980 LowLimit 64.4 21	HighLimit 127 129	%RPD		Qual

Sample ID: 2208A05-001AMSD	SampT	ype: MS	SD SD	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: WES22-26 2'	Batch	ID: 69 5	585	F	RunNo: 90	393				
Prep Date: 8/17/2022	Analysis D	ate: 8/	18/2022	S	SeqNo: 32	225983	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	14	46.55	0	83.4	36.1	154	6.30	33.9	
Surr. DNOP	3.0		1 655		64.5	21	120	0	٥	

0

%REC

82.7

61.0

LowLimit

36.1

21

HighLimit

154

129

%RPD

RPDLimit

Qual

SPK value SPK Ref Val

50.00

5.000

Qualifiers:

Analyte

Surr: DNOP

Diesel Range Organics (DRO)

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RLReporting Limit

Page 22 of 25

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208A05**

23-Aug-22

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Separator

Sample ID: 2208a05-002ams Client ID: WES22-27 2'		Гуре: МS h ID: 695			tCode: EF RunNo: 9 (8260B: Volati	iles Short I	List	
Prep Date: 8/17/2022	Analysis [18/2022		SeqNo: 32		Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9625	0	98.1	75.8	123			
Toluene	0.94	0.048	0.9625	0	97.4	68.3	130			
Ethylbenzene	0.90	0.048	0.9625	0	93.1	76.6	132			
Xylenes, Total	2.9	0.096	2.887	0	101	74.7	132			
Surr: 1,2-Dichloroethane-d4	0.49		0.4812		102	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.4812		106	70	130			
Surr: Dibromofluoromethane	0.59		0.4812		122	70	130			
Surr: Toluene-d8	0.49		0.4812		101	70	130			

Sample ID: 2208a05-002amsc	I Samp	Type: MS	D4	Tes	tCode: EF	PA Method	8260B: Volati	les Short	List	
Client ID: WES22-27 2'	Batc	h ID: 69	569	F	RunNo: 90	0413				
Prep Date: 8/17/2022	Analysis I	Date: 8/	18/2022	5	SeqNo: 32	225802	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.024	0.9699	0	86.1	75.8	123	12.3	20	
Toluene	0.80	0.048	0.9699	0	82.5	68.3	130	15.8	20	
Ethylbenzene	0.80	0.048	0.9699	0	83.0	76.6	132	10.8	20	
Xylenes, Total	2.5	0.097	2.910	0	87.3	74.7	132	13.3	20	
Surr: 1,2-Dichloroethane-d4	0.51		0.4850		105	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.52		0.4850		107	70	130	0	0	
Surr: Dibromofluoromethane	0.59		0.4850		121	70	130	0	0	
Surr: Toluene-d8	0.46		0.4850		95.3	70	130	0	0	

Sample ID: Ics-69569	Samp1	ype: LC	S4	Tes	tCode: EF	PA Method	8260B: Volati	les Short I	_ist	
Client ID: BatchQC	Batcl	n ID: 695	569	F	RunNo: 90	0413				
Prep Date: 8/17/2022	Analysis D	Date: 8/1	18/2022	5	SeqNo: 32	225821	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.6	80	120			
Toluene	0.82	0.050	1.000	0	82.4	80	120			
Ethylbenzene	0.85	0.050	1.000	0	85.5	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.5	80	120			
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		109	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		105	70	130			
Surr: Dibromofluoromethane	0.58		0.5000		116	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208A05 23-Aug-22**

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Separator

Sample ID: mb-69569	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8260B: Volati	les Short I	List	
Client ID: PBS	Batcl	h ID: 695	569	F	RunNo: 90	0413				
Prep Date: 8/17/2022	Analysis [Date: 8/	18/2022	S	SeqNo: 32	225822	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		100	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		106	70	130			
Surr: Dibromofluoromethane	0.57		0.5000		115	70	130			
Surr: Toluene-d8	0.50		0.5000		99.6	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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

Result

22

580

5.0

2208A05 23-Aug-22

WO#:

%RPD

RPDLimit

Qual

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Separator

Sample ID: 2208a05-001ams	SampT	Гуре: МЅ	}	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline R	ange	
Client ID: WES22-26 2'	Batch	h ID: 69	569	F	RunNo: 90	0413				
Prep Date: 8/17/2022	Analysis D	Date: 8/	18/2022	9	SeqNo: 32	225834	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	24.98	0	105	65.9	123			
Surr: BFB	570		499.5		115	70	130			
Sample ID: 2208a05-001amsd	SampT	Гуре: МЅ	 SD	Tes	tCode: El	PA Method	8015D Mod: (Gasoline R	ange	
Client ID: WES22-26 2'	Batch	h ID: 69 5	569	F	RunNo: 90	0413				
Prep Date: 8/17/2022	Analysis D	Date: 8/	18/2022	9	SeqNo: 32	225835	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	24.93	0	97.2	65.9	123	7.77	20	
Surr: BFB	560		498.5		113	70	130	0	0	
Sample ID: Ics-69569	SampT	Гуре: LC	 :S	Tes	tCode: El	PA Method	8015D Mod: (Gasoline R	ange	
Client ID: LCSS	Batch	h ID: 69	569	F	RunNo: 90	0413				

Sample ID: mb-69569	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline R	Range	
Client ID: PBS	Batch	1D: 695	569	F	RunNo: 90	0413				
Prep Date: 8/17/2022	Analysis D	ate: 8/	18/2022	9	SeqNo: 32	225856	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	580		500.0		117	70	130			

LowLimit

70

70

87.2

117

HighLimit

130

130

SPK value SPK Ref Val %REC

25.00

500.0

Qualifiers:

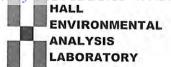
Analyte

Surr: BFB

Gasoline Range Organics (GRO)

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

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

Website: www.hallenvironmental.com

Sample Log-In Check List

	Vertex Resources Services, Inc.	Work Order Nun	nber: 2208A05		RcptNo: 1	1
Received By:	Juan Rojas	8/17/2022 7:10:00	АМ	Heaving		
Completed By:	Cheyenne Cason	8/17/2022 8:04:39	AM	(leads		
Reviewed By:	18/17/22					
Chain of Custo	ody					
1. Is Chain of Cus	stody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sa	ample delivered?		Courier			
Log In						
	t made to cool the samp	es?	Yes 🗸	No 🗆	NA \square	
4. Were all sample	es received at a tempera	ture of >0° C to 6.0°C	Yes 🗸	No 🗌	NA 🗆	
5. Sample(s) in pr	oper container(s)?		Yes 🗸	No 🗆		
6. Sufficient sample	le volume for indicated te	st(s)?	Yes 🗹	No 🗌		
7. Are samples (ex	cept VOA and ONG) pro	perly preserved?	Yes 🗸	No 🗌		
8. Was preservativ	e added to bottles?		Yes 🗌	No 🗸	NA 🗆	
9. Received at least	st 1 vial with headspace	<1/4" for AQ VOA?	Yes	No 🗌	NA 🗹	
10. Were any samp	le containers received be	oken?	Yes	No 🗸	No. of Contract of	/
					# of preserved bottles checked	
	match bottle labels? cies on chain of custody)		Yes 🗸	No 🗌	for pH:	
	rrectly identified on Chair		Yes 🗸	No 🗆	(<2 or >12 un Adjusted2	less noted)
	nalyses were requested	and the second s	Yes 🗸	No 🗆		
14. Were all holding	times able to be met? tomer for authorization.)		Yes 🗹	No 🗆	Checked by: KPA	8.17.22
	g (if applicable)					
	ied of all discrepancies w	vith this order?	Yes	No 🗆	NA 🗸	
Person No	otified:	Date	-	1170		
By Whom		Date		Dt	T1.6	
Regarding		Via:	eMail	Phone Fax	☐ In Person	
Client Inst	A Committee of the Comm					
16. Additional rema	133733					
17. Cooler Information Cooler No	ation Temp °C Condition	Seal Intact Seal No	Cool Data	Cinna d D		
		Not Present	Seal Date	Signed By		

- decilo	Chain-of-	Chain-of-Custody Record	Turn-Around T	ime:	2-044		I	HAII		VIRO	ENVIRONMENTAL	-
Client:	Davon / Vertex	HOTEL	☐ Standard	Rush	h			Z	YST ST	SIA	ANALYSTS LABORATOR	(<u>u</u>
			Project Name:	4				ed www	lenviro	www.hallenvironmental.com		-
Mailin	Mailing Address:	F.74	ongt	29 578	/ CSexquaron)	490.	4901 Hawkins NE	ns NE	Albuq	Albuquerane: NM 87109	A 87109	
		1	Project #:			Ţ e	Tel. 505-345-3975	5-3975	Fax	505-345-4107	4107	
Phone #:) #:		0-322	01720-00/	100			A	Analysis	Request		
email	email or Fax#:		Project Manager:	iger:		_		H	ÞΟ	(11		H
QA/QC	QA/QC Package: ☐ Standard	☐ Level 4 (Full Validation)	Kent	t stanings	Sbuin		bc8.²	SWIS	PO¢, S	nəsdA\t		_
Accre	Accreditation: Accreditation	☐ Az Compliance	Sampler: C	2		DR		275	O ^{S'}	uəs		
□ NELAC		ther	On Ice:	□_Yes	N □	/ 0			N '			
	EDD (Type)		# of Coolers:			AD)				ΟΛ-		
			Cooler Temp(including CF):	(including CF):	13-0-0-5 (C)	12D				-imə		
Date	Time Matrix	x Sample Name	Container Type and #	Preservative Type	HEAL NO. (177)	(X∃T8 08:H9T	8081 Pe M) BQ3	РАНs b <u>:</u> 8 АЯЭЯ	сі <u>}</u> 2° в	s) 0728 DO letoT		
8115	5 9:00 50.7			ZCE		>	1		-			
1	9:05	WESZZ-Z7 Z'		,	202	-			-			
	9:10	WESZE-28 2'			263		7					
	9:15	WES22-29 2'			400							
	9:30	WESZZ-30 Z'			500							-
	9:25	WES22-31 2'			300							
	9:30	WESZZ-32 2'			783							
	9:35	BES22-15 41			800							
	07:6	BES22-16 41			900		1					
	5:05	8ES22-17 4'			010							
	05:6	۸.			011							
	5	85525-19 41			210	1			_			
Date:		uished by:	Received by:	Via:	Pate Time	Remarks:	CC: C.	1	1	Davon		
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Client:	nall.	-o	Chain-or-Custody Record	I urii-Around I ime:	in	hoa			I	7	Z		HALL ENVIRONMENTAL	
	CZZ Z	Ozvon/ Vertex	rtex	☐ Standard Project Name:	Rush e:				Z Z	ANALYSIS	SIS		LABORATOR	>
Mailing	Mailing Address:	20	F.7.0	xhuo	29 0781	1 (separator)		www.h	ww sing	a a	nvironr	www.hallenvironmental.com	50m	' D: 11/
								Tel. 505	505-345-3975		Fax	505-345-4107	Fax 505-345-4107	1/202
Phone #:	#			2261	100-02110-	27				An		Request	**	2 7:
email o	email or Fax#:			Project Manager:	iger:			1-	-			(10		35:
QA/QC Packa	QA/QC Package: □ Standard		☐ Level 4 (Full Validation)	Kent	Kent stallings	sh	's (802 O / MR	3-23-2-2	SMIS	PO₄, S	0 '70 1	nəsdA\t		26 AM
Accreditation:	itation:		npliance	Sampler: C	20	2		Z808		ON	1701			
	□ EDD (Type)			# of Coolers:	3	2		səp		_	150			
				Cooler Temp(including cF):	(including CF):	30=0.3 (°C)		ioitee						
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Tvpe	HEAL No. CO.		9 1808	N) 803	S ARDS	V) 0928	S) 0728 D) lsto7		
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	11:30		WES22-33 21			910								
	11:35		WESZZ-33 4'			017								
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

August 23, 2022

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

FAX:

RE: Onyx 29 CTB1 Separator OrderNo.: 2208A05

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 20 sample(s) on 8/17/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-26 2'

Project: Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:00:00 AM

Lab ID: 2208A05-001 **Matrix:** SOIL **Received Date:** 8/17/2022 7:10:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 5:05:39 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/18/2022 5:05:39 PM
Surr: DNOP	105	21-129	%Rec	1	8/18/2022 5:05:39 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	140	60	mg/Kg	20	8/18/2022 2:36:24 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	Т				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	8/18/2022 12:27:18 PM
Toluene	ND	0.050	mg/Kg	1	8/18/2022 12:27:18 PM
Ethylbenzene	ND	0.050	mg/Kg	1	8/18/2022 12:27:18 PM
Xylenes, Total	ND	0.10	mg/Kg	1	8/18/2022 12:27:18 PM
Surr: 1,2-Dichloroethane-d4	109	70-130	%Rec	1	8/18/2022 12:27:18 PM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/18/2022 12:27:18 PM
Surr: Dibromofluoromethane	118	70-130	%Rec	1	8/18/2022 12:27:18 PM
Surr: Toluene-d8	102	70-130	%Rec	1	8/18/2022 12:27:18 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/18/2022 12:27:18 PM
Surr: BFB	122	70-130	%Rec	1	8/18/2022 12:27:18 PM

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

Qualifiers:

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

Page 1 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-27 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 9:05:00 AM

 Lab ID:
 2208A05-002
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/18/2022 5:49:07 PM Motor Oil Range Organics (MRO) 8/18/2022 5:49:07 PM ND 50 mg/Kg 1 Surr: DNOP 59.3 21-129 %Rec 1 8/18/2022 5:49:07 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 68 60 8/18/2022 3:38:28 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR 0.024 8/18/2022 1:53:19 PM ND mg/Kg 1 Toluene ND 8/18/2022 1:53:19 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/18/2022 1:53:19 PM Xylenes, Total ND 0.098 mg/Kg 1 8/18/2022 1:53:19 PM Surr: 1,2-Dichloroethane-d4 70-130 %Rec 8/18/2022 1:53:19 PM 110 1 Surr: 4-Bromofluorobenzene 103 70-130 %Rec 1 8/18/2022 1:53:19 PM Surr: Dibromofluoromethane 120 70-130 %Rec 1 8/18/2022 1:53:19 PM Surr: Toluene-d8 101 70-130 %Rec 1 8/18/2022 1:53:19 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 1:53:19 PM 49 1 Surr: BFB 120 70-130 %Rec 1 8/18/2022 1:53:19 PM

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

Qualifiers:

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

Page 2 of 25

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-28 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 9:10:00 AM

 Lab ID:
 2208A05-003
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 6:04:09 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/18/2022 6:04:09 PM
Surr: DNOP	95.0	21-129	%Rec	1	8/18/2022 6:04:09 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/18/2022 4:15:41 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.025	mg/Kg	1	8/18/2022 3:19:30 PM
Toluene	ND	0.050	mg/Kg	1	8/18/2022 3:19:30 PM
Ethylbenzene	ND	0.050	mg/Kg	1	8/18/2022 3:19:30 PM
Xylenes, Total	ND	0.099	mg/Kg	1	8/18/2022 3:19:30 PM
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	8/18/2022 3:19:30 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/18/2022 3:19:30 PM
Surr: Dibromofluoromethane	120	70-130	%Rec	1	8/18/2022 3:19:30 PM
Surr: Toluene-d8	99.3	70-130	%Rec	1	8/18/2022 3:19:30 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/18/2022 3:19:30 PM
Surr: BFB	122	70-130	%Rec	1	8/18/2022 3:19:30 PM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-29 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 9:15:00 AM

 Lab ID:
 2208A05-004
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: **DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 6:19:19 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/18/2022 6:19:19 PM Surr: DNOP 92.6 21-129 %Rec 1 8/18/2022 6:19:19 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 8/20/2022 2:57:23 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 3:48:12 PM mg/Kg 1 Toluene ND 8/18/2022 3:48:12 PM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 8/18/2022 3:48:12 PM Xylenes, Total ND 0.095 mg/Kg 1 8/18/2022 3:48:12 PM Surr: 1,2-Dichloroethane-d4 108 70-130 %Rec 8/18/2022 3:48:12 PM 1 Surr: 4-Bromofluorobenzene 103 70-130 %Rec 1 8/18/2022 3:48:12 PM Surr: Dibromofluoromethane 122 70-130 %Rec 1 8/18/2022 3:48:12 PM Surr: Toluene-d8 96.0 70-130 %Rec 1 8/18/2022 3:48:12 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 3:48:12 PM 4 8 1 Surr: BFB 115 70-130 %Rec 1 8/18/2022 3:48:12 PM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-30 2'

Project: Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:20:00 AM

Lab ID: 2208A05-005 **Matrix:** SOIL **Received Date:** 8/17/2022 7:10:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 6:34:52 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/18/2022 6:34:52 PM
Surr: DNOP	93.4	21-129	%Rec	1	8/18/2022 6:34:52 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	150	60	mg/Kg	20	8/20/2022 3:59:26 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	Т				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/18/2022 4:16:52 PM
Toluene	ND	0.048	mg/Kg	1	8/18/2022 4:16:52 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/18/2022 4:16:52 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/18/2022 4:16:52 PM
Surr: 1,2-Dichloroethane-d4	110	70-130	%Rec	1	8/18/2022 4:16:52 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/18/2022 4:16:52 PM
Surr: Dibromofluoromethane	123	70-130	%Rec	1	8/18/2022 4:16:52 PM
Surr: Toluene-d8	98.7	70-130	%Rec	1	8/18/2022 4:16:52 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/18/2022 4:16:52 PM
Surr: BFB	119	70-130	%Rec	1	8/18/2022 4:16:52 PM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-31 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 9:25:00 AM

 Lab ID:
 2208A05-006
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qua	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 6:50:16 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/18/2022 6:50:16 PM
Surr: DNOP	85.4	21-129	%Rec	1	8/18/2022 6:50:16 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	71	60	mg/Kg	20	8/20/2022 4:11:51 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/18/2022 4:45:35 PM
Toluene	ND	0.049	mg/Kg	1	8/18/2022 4:45:35 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/18/2022 4:45:35 PM
Xylenes, Total	ND	0.097	mg/Kg	1	8/18/2022 4:45:35 PM
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	8/18/2022 4:45:35 PM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/18/2022 4:45:35 PM
Surr: Dibromofluoromethane	116	70-130	%Rec	1	8/18/2022 4:45:35 PM
Surr: Toluene-d8	98.7	70-130	%Rec	1	8/18/2022 4:45:35 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/18/2022 4:45:35 PM
Surr: BFB	121	70-130	%Rec	1	8/18/2022 4:45:35 PM

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

Qualifiers:

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

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Surr: Dibromofluoromethane

Gasoline Range Organics (GRO)

EPA METHOD 8015D MOD: GASOLINE RANGE

Surr: Toluene-d8

Surr: BFB

Analytical Report Lab Order 2208A05

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-32 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 9:30:00 AM

 Lab ID:
 2208A05-007
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 7:05:35 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 8/18/2022 7:05:35 PM Surr: DNOP 103 21-129 %Rec 1 8/18/2022 7:05:35 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 60 8/20/2022 4:24:16 PM 120 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 5:14:14 PM mg/Kg 1 Toluene ND 8/18/2022 5:14:14 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/18/2022 5:14:14 PM Xylenes, Total ND 0.097 mg/Kg 1 8/18/2022 5:14:14 PM Surr: 1,2-Dichloroethane-d4 105 70-130 %Rec 8/18/2022 5:14:14 PM 1 Surr: 4-Bromofluorobenzene 106 70-130 %Rec 1 8/18/2022 5:14:14 PM

120

100

ND

118

70-130

70-130

70-130

49

%Rec

%Rec

mg/Kg

%Rec

1

1

1

1

8/18/2022 5:14:14 PM

8/18/2022 5:14:14 PM

8/18/2022 5:14:14 PM

8/18/2022 5:14:14 PM

Analyst: JR

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-15 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 9:35:00 AM

 Lab ID:
 2208A05-008
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: **DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 7:21:14 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/18/2022 7:21:14 PM Surr: DNOP 21-129 %Rec 1 8/18/2022 7:21:14 PM 119 **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 200 60 8/20/2022 4:36:41 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 5:42:49 PM mg/Kg 1 Toluene ND 8/18/2022 5:42:49 PM 0.047 mg/Kg 1 Ethylbenzene ND 0.047 mg/Kg 1 8/18/2022 5:42:49 PM Xylenes, Total ND 0.095 mg/Kg 1 8/18/2022 5:42:49 PM Surr: 1,2-Dichloroethane-d4 70-130 %Rec 8/18/2022 5:42:49 PM 110 1 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 8/18/2022 5:42:49 PM Surr: Dibromofluoromethane 8/18/2022 5:42:49 PM 70-130 %Rec 1 118 Surr: Toluene-d8 100 70-130 %Rec 1 8/18/2022 5:42:49 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 5:42:49 PM 47 1 Surr: BFB 119 70-130 %Rec 1 8/18/2022 5:42:49 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of 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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-16 4'

Project: Onyx 29 CTB1 Separator Collection Date: 8/15/2022 9:40:00 AM Lab ID: 2208A05-009 Matrix: SOIL Received Date: 8/17/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 7:36:33 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/18/2022 7:36:33 PM Surr: DNOP 92.9 21-129 %Rec 1 8/18/2022 7:36:33 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 460 60 8/20/2022 4:49:05 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 6:11:26 PM mg/Kg 1 Toluene ND 8/18/2022 6:11:26 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/18/2022 6:11:26 PM Xylenes, Total ND 0.097 mg/Kg 1 8/18/2022 6:11:26 PM Surr: 1,2-Dichloroethane-d4 104 70-130 %Rec 8/18/2022 6:11:26 PM 1 Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 8/18/2022 6:11:26 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 6:11:26 PM 118 Surr: Toluene-d8 102 70-130 %Rec 1 8/18/2022 6:11:26 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 6:11:26 PM 49 1 Surr: BFB 120 70-130 %Rec 1 8/18/2022 6:11:26 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-17 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 9:45:00 AM

 Lab ID:
 2208A05-010
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: **DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 7:52:10 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/18/2022 7:52:10 PM Surr: DNOP 108 21-129 %Rec 1 8/18/2022 7:52:10 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 60 8/20/2022 5:01:30 PM 83 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.025 8/18/2022 6:40:02 PM mg/Kg 1 Toluene ND 8/18/2022 6:40:02 PM 0.050 mg/Kg 1 Ethylbenzene ND 0.050 mg/Kg 1 8/18/2022 6:40:02 PM Xylenes, Total ND 0.10 mg/Kg 1 8/18/2022 6:40:02 PM Surr: 1,2-Dichloroethane-d4 103 %Rec 8/18/2022 6:40:02 PM 70-130 1 Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 8/18/2022 6:40:02 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 6:40:02 PM 118 Surr: Toluene-d8 98.6 70-130 %Rec 1 8/18/2022 6:40:02 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 6:40:02 PM 5.0 1 Surr: BFB 121 70-130 %Rec 1 8/18/2022 6:40:02 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of 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

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Surr: Dibromofluoromethane

Gasoline Range Organics (GRO)

EPA METHOD 8015D MOD: GASOLINE RANGE

Surr: Toluene-d8

Surr: BFB

Analytical Report Lab Order 2208A05

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-18 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 9:50:00 AM

 Lab ID:
 2208A05-011
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/18/2022 8:07:19 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/18/2022 8:07:19 PM Surr: DNOP 76.5 21-129 %Rec 1 8/18/2022 8:07:19 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 60 8/18/2022 5:18:21 PM 64 mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR 0.024 8/18/2022 7:08:43 PM ND mg/Kg 1 Toluene ND 8/18/2022 7:08:43 PM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 8/18/2022 7:08:43 PM Xylenes, Total ND 0.097 mg/Kg 1 8/18/2022 7:08:43 PM Surr: 1,2-Dichloroethane-d4 107 70-130 %Rec 8/18/2022 7:08:43 PM 1 Surr: 4-Bromofluorobenzene 105 70-130 %Rec 1 8/18/2022 7:08:43 PM

116

101

ND

118

70-130

70-130

70-130

4 8

%Rec

%Rec

mg/Kg

%Rec

1

1

1

1

8/18/2022 7:08:43 PM

8/18/2022 7:08:43 PM

8/18/2022 7:08:43 PM

8/18/2022 7:08:43 PM

Analyst: JR

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-19 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 9:55:00 AM

 Lab ID:
 2208A05-012
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 8:22:35 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 8/18/2022 8:22:35 PM Surr: DNOP 101 21-129 %Rec 1 8/18/2022 8:22:35 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 260 60 8/18/2022 6:20:04 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR 0.025 8/18/2022 7:37:18 PM ND mg/Kg 1 Toluene ND 8/18/2022 7:37:18 PM 0.049 mg/Kg 1 Ethylbenzene ND 0.049 mg/Kg 1 8/18/2022 7:37:18 PM Xylenes, Total ND 0.098 mg/Kg 1 8/18/2022 7:37:18 PM Surr: 1,2-Dichloroethane-d4 108 70-130 %Rec 8/18/2022 7:37:18 PM 1 Surr: 4-Bromofluorobenzene 104 70-130 %Rec 1 8/18/2022 7:37:18 PM Surr: Dibromofluoromethane 122 70-130 %Rec 1 8/18/2022 7:37:18 PM Surr: Toluene-d8 98.9 70-130 %Rec 1 8/18/2022 7:37:18 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 7:37:18 PM 49 1 Surr: BFB 118 70-130 %Rec 1 8/18/2022 7:37:18 PM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-20 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 10:00:00 AM

 Lab ID:
 2208A05-013
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 8:37:46 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 8:37:46 PM
Surr: DNOP	86.5	21-129	%Rec	1	8/18/2022 8:37:46 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	130	60	mg/Kg	20	8/18/2022 6:57:06 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	т				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	8/18/2022 8:05:54 PM
Toluene	ND	0.050	mg/Kg	1	8/18/2022 8:05:54 PM
Ethylbenzene	ND	0.050	mg/Kg	1	8/18/2022 8:05:54 PM
Xylenes, Total	ND	0.099	mg/Kg	1	8/18/2022 8:05:54 PM
Surr: 1,2-Dichloroethane-d4	110	70-130	%Rec	1	8/18/2022 8:05:54 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	8/18/2022 8:05:54 PM
Surr: Dibromofluoromethane	116	70-130	%Rec	1	8/18/2022 8:05:54 PM
Surr: Toluene-d8	98.4	70-130	%Rec	1	8/18/2022 8:05:54 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/18/2022 8:05:54 PM
Surr: BFB	120	70-130	%Rec	1	8/18/2022 8:05:54 PM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-21 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 10:05:00 AM

 Lab ID:
 2208A05-014
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qua	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	8/18/2022 8:52:56 PM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	8/18/2022 8:52:56 PM
Surr: DNOP	84.3	21-129	%Rec	1	8/18/2022 8:52:56 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	85	60	mg/Kg	20	8/18/2022 7:09:27 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	•				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/18/2022 8:34:30 PM
Toluene	ND	0.049	mg/Kg	1	8/18/2022 8:34:30 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/18/2022 8:34:30 PM
Xylenes, Total	ND	0.098	mg/Kg	1	8/18/2022 8:34:30 PM
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	1	8/18/2022 8:34:30 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	8/18/2022 8:34:30 PM
Surr: Dibromofluoromethane	121	70-130	%Rec	1	8/18/2022 8:34:30 PM
Surr: Toluene-d8	100	70-130	%Rec	1	8/18/2022 8:34:30 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/18/2022 8:34:30 PM
Surr: BFB	120	70-130	%Rec	1	8/18/2022 8:34:30 PM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-22 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 10:10:00 AM

 Lab ID:
 2208A05-015
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE (ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 9:08:12 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/18/2022 9:08:12 PM
Surr: DNOP	97.6	21-129	%Rec	1	8/18/2022 9:08:12 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	110	60	mg/Kg	20	8/18/2022 7:21:48 PM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/18/2022 9:03:05 PM
Toluene	ND	0.048	mg/Kg	1	8/18/2022 9:03:05 PM
Ethylbenzene	ND	0.048	mg/Kg	1	8/18/2022 9:03:05 PM
Xylenes, Total	ND	0.096	mg/Kg	1	8/18/2022 9:03:05 PM
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	8/18/2022 9:03:05 PM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	8/18/2022 9:03:05 PM
Surr: Dibromofluoromethane	116	70-130	%Rec	1	8/18/2022 9:03:05 PM
Surr: Toluene-d8	99.3	70-130	%Rec	1	8/18/2022 9:03:05 PM
EPA METHOD 8015D MOD: GASOLINE RA	ANGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/18/2022 9:03:05 PM
Surr: BFB	118	70-130	%Rec	1	8/18/2022 9:03:05 PM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-33 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 11:30:00 AM

 Lab ID:
 2208A05-016
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 9:23:14 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 9:23:14 PM
Surr: DNOP	99.5	21-129	%Rec	1	8/18/2022 9:23:14 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/18/2022 7:34:10 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/18/2022 9:31:40 PM
Toluene	ND	0.047	mg/Kg	1	8/18/2022 9:31:40 PM
Ethylbenzene	ND	0.047	mg/Kg	1	8/18/2022 9:31:40 PM
Xylenes, Total	ND	0.095	mg/Kg	1	8/18/2022 9:31:40 PM
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	1	8/18/2022 9:31:40 PM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/18/2022 9:31:40 PM
Surr: Dibromofluoromethane	118	70-130	%Rec	1	8/18/2022 9:31:40 PM
Surr: Toluene-d8	102	70-130	%Rec	1	8/18/2022 9:31:40 PM
EPA METHOD 8015D MOD: GASOLINE RANGE	≣				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/18/2022 9:31:40 PM
Surr: BFB	124	70-130	%Rec	1	8/18/2022 9:31:40 PM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-33 4

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 11:35:00 AM

 Lab ID:
 2208A05-017
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 14 mg/Kg 1 8/18/2022 9:38:21 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 8/18/2022 9:38:21 PM Surr: DNOP 104 21-129 %Rec 1 8/18/2022 9:38:21 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride ND 60 8/18/2022 7:46:30 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 0.024 8/18/2022 10:00:17 PM mg/Kg 1 Toluene ND 8/18/2022 10:00:17 PM 0.048 mg/Kg 1 Ethylbenzene ND 0.048 mg/Kg 1 8/18/2022 10:00:17 PM Xylenes, Total ND 0.095 mg/Kg 1 8/18/2022 10:00:17 PM Surr: 1,2-Dichloroethane-d4 103 70-130 %Rec 8/18/2022 10:00:17 PM 1 Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 8/18/2022 10:00:17 PM Surr: Dibromofluoromethane 70-130 %Rec 1 8/18/2022 10:00:17 PM 115 Surr: Toluene-d8 102 70-130 %Rec 1 8/18/2022 10:00:17 PM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 8/18/2022 10:00:17 PM 4 8 1 Surr: BFB 118 70-130 %Rec 1 8/18/2022 10:00:17 PM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-34 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 11:40:00 AM

 Lab ID:
 2208A05-018
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 9:53:44 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 9:53:44 PM
Surr: DNOP	95.0	21-129	%Rec	1	8/18/2022 9:53:44 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/18/2022 8:23:32 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	8/19/2022 12:51:33 AM
Toluene	ND	0.049	mg/Kg	1	8/19/2022 12:51:33 AM
Ethylbenzene	ND	0.049	mg/Kg	1	8/19/2022 12:51:33 AM
Xylenes, Total	ND	0.098	mg/Kg	1	8/19/2022 12:51:33 AM
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	8/19/2022 12:51:33 AM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	8/19/2022 12:51:33 AM
Surr: Dibromofluoromethane	112	70-130	%Rec	1	8/19/2022 12:51:33 AM
Surr: Toluene-d8	98.8	70-130	%Rec	1	8/19/2022 12:51:33 AM
EPA METHOD 8015D MOD: GASOLINE RANGE	=				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/19/2022 12:51:33 AM
Surr: BFB	119	70-130	%Rec	1	8/19/2022 12:51:33 AM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-34 4'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 11:45:00 AM

 Lab ID:
 2208A05-019
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 10:09:38 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/18/2022 10:09:38 PM
Surr: DNOP	94.4	21-129	%Rec	1	8/18/2022 10:09:38 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	72	59	mg/Kg	20	8/18/2022 8:35:53 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/19/2022 1:20:01 AM
Toluene	ND	0.048	mg/Kg	1	8/19/2022 1:20:01 AM
Ethylbenzene	ND	0.048	mg/Kg	1	8/19/2022 1:20:01 AM
Xylenes, Total	ND	0.097	mg/Kg	1	8/19/2022 1:20:01 AM
Surr: 1,2-Dichloroethane-d4	107	70-130	%Rec	1	8/19/2022 1:20:01 AM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/19/2022 1:20:01 AM
Surr: Dibromofluoromethane	111	70-130	%Rec	1	8/19/2022 1:20:01 AM
Surr: Toluene-d8	99.2	70-130	%Rec	1	8/19/2022 1:20:01 AM
EPA METHOD 8015D MOD: GASOLINE RANG	GE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/19/2022 1:20:01 AM
Surr: BFB	117	70-130	%Rec	1	8/19/2022 1:20:01 AM

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

Qualifiers:

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

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Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-14 8'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/15/2022 1:30:00 PM

 Lab ID:
 2208A05-020
 Matrix: SOIL
 Received Date: 8/17/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 10:25:10 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 10:25:10 PM
Surr: DNOP	88.6	21-129	%Rec	1	8/18/2022 10:25:10 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	80	60	mg/Kg	20	8/18/2022 8:48:14 PM
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	8/19/2022 1:48:32 AM
Toluene	ND	0.048	mg/Kg	1	8/19/2022 1:48:32 AM
Ethylbenzene	ND	0.048	mg/Kg	1	8/19/2022 1:48:32 AM
Xylenes, Total	ND	0.096	mg/Kg	1	8/19/2022 1:48:32 AM
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	8/19/2022 1:48:32 AM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/19/2022 1:48:32 AM
Surr: Dibromofluoromethane	112	70-130	%Rec	1	8/19/2022 1:48:32 AM
Surr: Toluene-d8	99.2	70-130	%Rec	1	8/19/2022 1:48:32 AM
EPA METHOD 8015D MOD: GASOLINE RAN	IGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/19/2022 1:48:32 AM
Surr: BFB	116	70-130	%Rec	1	8/19/2022 1:48:32 AM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2208A05

23-Aug-22

Client:	Vertex Resources Services, Inc.
Project:	Onyx 29 CTB1 Separator

Project:		yx 29 CTB1 Separator					
Sample ID:	MB-69603	SampType: mblk TestCode: EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID: 69603	RunNo: 90384				
Prep Date:	8/18/2022	Analysis Date: 8/18/2022	SeqNo: 3226290 Units: mg/Kg				
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual				
Chloride		ND 1.5					
Sample ID:	LCS-69603	SampType: Ics	TestCode: EPA Method 300.0: Anions				
Client ID:	LCSS	Batch ID: 69603	RunNo: 90384				
Prep Date:	8/18/2022	Analysis Date: 8/18/2022	SeqNo: 3226292 Units: mg/Kg				
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual				
Chloride		14 1.5 15.00	0 95.4 90 110				
Sample ID:	MB-69613	SampType: mblk	TestCode: EPA Method 300.0: Anions				
Client ID:	PBS	Batch ID: 69613	RunNo: 90383				
Prep Date:	8/18/2022	Analysis Date: 8/18/2022	SeqNo: 3226631 Units: mg/Kg				
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual				
Chloride		ND 1.5					
Sample ID:	LCS-69613	SampType: Ics	TestCode: EPA Method 300.0: Anions				
Client ID:	LCSS	Batch ID: 69613	RunNo: 90383				
Prep Date:	8/18/2022	Analysis Date: 8/18/2022	SeqNo: 3226632 Units: mg/Kg				
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual				
Chloride		14 1.5 15.00	0 94.5 90 110				
Sample ID:	MB-69605	SampType: mblk	TestCode: EPA Method 300.0: Anions				
Client ID:	PBS	Batch ID: 69605	RunNo: 90460				
Prep Date:	8/18/2022	Analysis Date: 8/20/2022	SeqNo: 3228049 Units: mg/Kg				
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual				
Chloride		ND 1.5					
Sample ID:	LCS-69605	SampType: Ics	TestCode: EPA Method 300.0: Anions				
Client ID:	LCSS	Batch ID: 69605	RunNo: 90460				
Prep Date:	8/18/2022	Analysis Date: 8/20/2022	SeqNo: 3228050 Units: mg/Kg				
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual				
		44 45 45 00					

Qualifiers:

Chloride

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

1.5

15.00

Analyte detected in the associated Method Blank

95.0

110

- Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2208A05 23-Aug-22

WO#:

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Separator

Sample ID: MB-69585	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID): 69585	RunNo: 90393					
Prep Date: 8/17/2022	Analysis Date	e: 8/18/2022	Se	qNo: 3225979	Units: mg/Kg			
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPI	D RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	15						
Motor Oil Range Organics (MRO)	ND	50						
Surr: DNOP	9.6	10.00		96.0 21	129			
Sample ID: LCS-69585	SampType	e: LCS	TestC	8015M/D: Diesel Ran	ge Organics			
Client ID: LCSS	Batch ID): 69585	RunNo: 90393					
Prep Date: 8/17/2022	Analysis Date	e: 8/18/2022	Se	qNo: 3225980	Units: mg/Kg			
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPI	D RPDLimit	Qual	
Diesel Range Organics (DRO)	55	15 50.00	0	111 64.4	127			
Surr: DNOP	5.4	5.000		108 21	129			
Sample ID: 2208A05-001AMS	SampType	e: MS	TestC	ode: EPA Method	8015M/D: Diesel Ran	ge Organics		
Client ID: WES22-26 2'	Batch ID): 69585	Rui	nNo: 90393				
Prep Date: 8/17/2022	Analysis Date	e: 8/18/2022	Se	qNo: 3225982	Units: mg/Kg			
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPI) RPDLimit	Qual	
Diesel Range Organics (DRO)	41	15 50.00	0	82.7 36.1	154			
Surr: DNOP	3.0	5.000		61.0 21	129			

Sample ID:	2208A05-001AMSD	SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID:	WES22-26 2'	Batcl	Batch ID: 69585 RunNo: 90393								
Prep Date:	8/17/2022 Analysis Date: 8/18/20				5	SeqNo: 32	225983	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	39	14	46.55	0	83.4	36.1	154	6.30	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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208A05**

23-Aug-22

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Separator

Sample ID: 2208a05-002ams	·	Гуре: м S					8260B: Volati	les Short I	_ist	
Client ID: WES22-27 2'	Batcl	h ID: 695	569	F	RunNo: 90	0413				
Prep Date: 8/17/2022	Analysis [Date: 8/ 1	18/2022	5	SeqNo: 32	225801	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9625	0	98.1	75.8	123			
Toluene	0.94	0.048	0.9625	0	97.4	68.3	130			
Ethylbenzene	0.90	0.048	0.9625	0	93.1	76.6	132			
Xylenes, Total	2.9	0.096	2.887	0	101	74.7	132			
Surr: 1,2-Dichloroethane-d4	0.49		0.4812		102	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.4812		106	70	130			
Surr: Dibromofluoromethane	0.59		0.4812		122	70	130			
Surr: Toluene-d8	0.49		0.4812		101	70	130			

Sample ID: 2208a05-002ams	d Samp	Type: MS	SD4	Tes	stCode: El	PA Method	8260B: Volati	iles Short	List	
Client ID: WES22-27 2'	Bato	h ID: 69	569	F	RunNo: 9	0413				
Prep Date: 8/17/2022	Analysis	Date: 8/	18/2022	;	SeqNo: 3	225802	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.024	0.9699	0	86.1	75.8	123	12.3	20	
Toluene	0.80	0.048	0.9699	0	82.5	68.3	130	15.8	20	
Ethylbenzene	0.80	0.048	0.9699	0	83.0	76.6	132	10.8	20	
Xylenes, Total	2.5	0.097	2.910	0	87.3	74.7	132	13.3	20	
Surr: 1,2-Dichloroethane-d4	0.51		0.4850		105	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.52		0.4850		107	70	130	0	0	
Surr: Dibromofluoromethane	0.59		0.4850		121	70	130	0	0	
Surr: Toluene-d8	0.46		0.4850		95.3	70	130	0	0	

Sample ID: Ics-69569	Samp	ype: LC	S4	Tes	tCode: EF	A Method	8260B: Volati	les Short L	_ist	
Client ID: BatchQC	Batcl	n ID: 695	569	F	RunNo: 90)413				
Prep Date: 8/17/2022	Analysis [Date: 8/1	18/2022	9	SeqNo: 32	225821	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.6	80	120			
Toluene	0.82	0.050	1.000	0	82.4	80	120			
Ethylbenzene	0.85	0.050	1.000	0	85.5	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.5	80	120			
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		109	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		105	70	130			
Surr: Dibromofluoromethane	0.58		0.5000		116	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208A05 23-Aug-22**

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Separator

Sample ID: mb-69569	Samp ⁻	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8260B: Volati	les Short	List	
Client ID: PBS	Batc	h ID: 695	569	F	RunNo: 90	0413				
Prep Date: 8/17/2022	Analysis [Date: 8/	18/2022		SeqNo: 32	225822	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		100	70	130			
Surr: 4-Bromofluorobenzene	0.53		0.5000		106	70	130			
Surr: Dibromofluoromethane	0.57		0.5000		115	70	130			
Surr: Toluene-d8	0.50		0.5000		99.6	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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

Result

22

580

PQL

5.0

WO#: **2208A05 23-Aug-22**

Client: Vertex Resources Services, Inc.
Project: Onyx 29 CTB1 Separator

Sample ID: 22	208a05-001ams	SampTy	/pe: MS	}	Tes	tCode: EF	PA Method	8015D Mod: 0	Gasoline R	ange	
Client ID: W	VES22-26 2'	Batch	ID: 695	569	F	RunNo: 90	0413				
Prep Date: 8	8/17/2022	Analysis Da	ate: 8/ 1	18/2022	5	SeqNo: 32	225834	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range O	Organics (GRO)	26	5.0	24.98	0	105	65.9	123			
Surr: BFB		570		499.5		115	70	130			
Sample ID: 22	208a05-001amsd	SampTy	/pe: MS	SD .	Tes	tCode: EF	PA Method	8015D Mod: 0	Gasoline R	ange	
Client ID: W	VES22-26 2'	Batch	ID: 695	569	F	RunNo: 90	0413				
Prep Date: 8	8/17/2022	Analysis Da	ate: 8/ 1	18/2022	5	SeqNo: 32	225835	Units: mg/K	g		
Prep Date: 8 Analyte	8/17/2022	Analysis Da	ate: 8/ 1	18/2022 SPK value	SPK Ref Val	SeqNo: 32 %REC	225835 LowLimit	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
'		•				·		J	•	RPDLimit 20	Qual
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD		Qual
Analyte Gasoline Range O	Organics (GRO)	Result 24	PQL 5.0	SPK value 24.93 498.5	SPK Ref Val	%REC 97.2 113	LowLimit 65.9 70	HighLimit 123	%RPD 7.77 0	20	Qual
Analyte Gasoline Range O Surr: BFB Sample ID: Ic:	Organics (GRO)	Result 24 560 SampTy	PQL 5.0	SPK value 24.93 498.5	SPK Ref Val 0	%REC 97.2 113	LowLimit 65.9 70 PA Method	HighLimit 123 130	%RPD 7.77 0	20	Qual

Sample ID: mb-69569	SampT	уре: МЕ	LK	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline R	lange	
Client ID: PBS	Batch	ID: 695	69	F	tunNo: 9(0413				
Prep Date: 8/17/2022	Analysis D	ate: 8/	18/2022	9	SeqNo: 32	225856	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	580		500.0		117	70	130			

LowLimit

70

70

%REC

87.2

117

HighLimit

130

130

%RPD

RPDLimit

Qual

SPK value SPK Ref Val

25.00

500.0

Qualifiers:

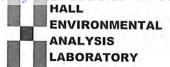
Analyte

Surr: BFB

Gasoline Range Organics (GRO)

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

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

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Vertex Resources Services, Inc.	Work Order Nu	mber: 2208A05		RcptNo: 1
Received By:	Juan Rojas	8/17/2022 7:10:0	0 AM	Henrand	
Completed By:	Cheyenne Cason	8/17/2022 8:04:3	9 AM	Clear	
Reviewed By:	n8/17/22			Cypino	
Chain of Cus	<u>tody</u>				
1. Is Chain of Co	ustody complete?		Yes 🗸	No 🗌	Not Present
2. How was the	sample delivered?		Courier		
Log In					
	pt made to cool the samp	es?	Yes 🗸	No 🗆	NA 🗆
4. Were all samp	oles received at a tempera	ture of >0° C to 6.0°C	Yes 🗸	No 🗆	NA 🗆
5. Sample(s) in p	proper container(s)?		Yes 🗸	No 🗆	
6. Sufficient sam	ple volume for indicated te	st(s)?	Yes 🗹	No 🗌	
7. Are samples (except VOA and ONG) pro	perly preserved?	Yes 🗸	No 🗆	
8. Was preservat	tive added to bottles?		Yes 🗌	No 🗹	NA 🗆
9. Received at le	ast 1 vial with headspace	<1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹
10. Were any sam	nple containers received be	oken?	Yes	No 🗸	/
44 6 55 55 55	A company to the second				# of preserved bottles checked
	rk match bottle labels? incies on chain of custody)		Yes 🔽	No 🗀	for pH: (<2 or>12 unless noted)
	orrectly identified on Chair		Yes 🗸	No 🗆	Adjusted2
13. Is it clear what	analyses were requested?	,	Yes 🗸	No 🗆	/
	ng times able to be met? stomer for authorization.)		Yes 🔽	No 🗆	Checked by: WPa 8.17.22
Special Handli	ing (if applicable)				
	tified of all discrepancies w	vith this order?	Yes	No 🗌	NA 🗹
Person I	Notified:	Dat	te:		
By Who	m:	Via		Phone Fax	☐ In Person
Regardin	ng:				
Client In	structions:				
16. Additional ren	narks:				
17. Cooler Inform Cooler No	Temp °C Condition	Seal Intact Seal No Not Present	Seal Date	Signed By	

- Indian	Chain-of-C	Chain-of-Custody Record	Turn-Around T	ime:	2-044			HAII		N	ENVIRONMENTAL	TAIL
Client:	Davon / Vertex	HOTEL	☐ Standard	A Rush	<u></u>			N	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	S	ANALYSTS LABORATOR	
			Project Name:					A VAVAVA	allenvir	ue muo	www hallenvironmental com	
Mailin	Mailing Address:	E,74	ongt	29 578	(CSexquaron)	490	4901 Hawkins NE	ins NE		anerar	Albuqueraue: NM 87109	
		1	Project #:				Tel. 505-345-3975	15-397		Fax 505	505-345-4107	
Phone #:) #:		0-322	01720-00/	10				√na	is Rec	Request	
email	email or Fax#:		Project Manager:	ger:		_	H		ÞΟ		(tr	
QA/QC	QA/QC Package:	☐ Level 4 (Full Validation)	Kent	t stanings	Sheir	1208) s 9MM \ O	bcB,2	SMIS	PO₄, S		nəsdA\t	
Accre	Accreditation:	☐ Az Compliance	Sampler: C	2				275	' ⁷ O		uəs	
□ NELAC		ier	On Ice:	□_Yes	oN 🗆					(A	Pre	
	EDD (Type)		# of Coolers:	-					103) w.	
			Cooler Temp(including CF):	(including CF): ()	(00) × 5.0=0-5.				۲, ۱		olifor	
Date	Time Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO. (1977)	(ХЭТВ 08:НЧТ	8081 Pe M) ada	РАНs b <u>:</u> 8 АЯЭЯ	C) E' B	V) 0928 S) 0728	oO lstoT	
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	01:10	WESZZ-28 2'			263							
	9:15	WES22-29 2'			ha							
	9:30	WESSZ-30 Z'			Sac							
	9:25	WES22-31 2'			300							
	9:30	WESZZ-32 2'			78					Ľ.		
	9:35	8E522-15 41			800							
	07:6	BES22-16 4'			900							
	9:45	8ES22-17 4'			010							
	9:50	۸.			011							
_	5	85525-19 41			210	1			-			
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Date:	Date; Time: Relinquis	Relinquished by:	3	Via:	Date Time	1	10 # : 2029 81S	i'	620	578		
SIZO.	200 C	100000000000000000000000000000000000000	1	Cole Land	Chalis will)		

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1 Level 4 (Full Validation)	Mailing	Addres	,	6:1	xhuo	29 078				*	=	nviron	menta	l.com	D. 11
ne #: Container Containe				2/12	Project #:			4 ,	901 H8	WKINS 345	1 1	Albuqu	erque,	NM 87109	71720
	hone	#:				20-02210	10		ei. 500	-040-	An	alysis	Requ	45-410/ est	
Sample: CD Container CD Container CD Container CD Container CD Container CD Container Color Temporal area	email o	r Fax#:			Project Mana	ager:		_	1	H		⊅ C		(10	
FEAC	A/QC ☐ Stan	Package. Idard		☐ Level 4 (Full Validation)	Kent	2111028	Sh		3.4.36.32.3	SMIS)S ,404		nəsdAV	26 AM
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Time Matrix Sample Name Cooler Templinaturing cry; Cooler Temp	EDD	(Type)			# of Coolers:	S -	2				sls	°EO		4) u	
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

August 23, 2022

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

FAX:

RE: Onyx 29 CTB1 Separator OrderNo.: 2208A84

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/18/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-35 1

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/16/2022 9:30:00 AM

 Lab ID:
 2208A84-001
 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses** Analyst: **DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 13 mg/Kg 1 8/18/2022 11:56:59 AM Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 8/18/2022 11:56:59 AM Surr: DNOP 88.2 21-129 %Rec 1 8/18/2022 11:56:59 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/18/2022 1:11:00 PM 3.1 mg/Kg 1 Surr: BFB 104 37.7-212 %Rec 1 8/18/2022 1:11:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 8/18/2022 1:11:00 PM 0.016 mg/Kg 1 Toluene ND 0.031 mg/Kg 1 8/18/2022 1:11:00 PM Ethylbenzene ND 0.031 mg/Kg 1 8/18/2022 1:11:00 PM Xylenes, Total ND 0.063 mg/Kg 8/18/2022 1:11:00 PM 1 Surr: 4-Bromofluorobenzene 97.9 70-130 %Rec 1 8/18/2022 1:11:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 8/20/2022 1:55:18 PM ND 60 20

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

Qualifiers:

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

Page 1 of 8

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-36 1'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/16/2022 9:35:00 AM

 Lab ID:
 2208A84-002
 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 12:10:51 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 12:10:51 PM
Surr: DNOP	92.6	21-129	%Rec	1	8/18/2022 12:10:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	8/18/2022 1:51:00 PM
Surr: BFB	104	37.7-212	%Rec	1	8/18/2022 1:51:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.017	mg/Kg	1	8/18/2022 1:51:00 PM
Toluene	ND	0.035	mg/Kg	1	8/18/2022 1:51:00 PM
Ethylbenzene	ND	0.035	mg/Kg	1	8/18/2022 1:51:00 PM
Xylenes, Total	ND	0.069	mg/Kg	1	8/18/2022 1:51:00 PM
Surr: 4-Bromofluorobenzene	99.2	70-130	%Rec	1	8/18/2022 1:51:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/20/2022 2:07:43 PM

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

Qualifiers:

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

Page 2 of 8

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-37 1'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/16/2022 9:40:00 AM

 Lab ID:
 2208A84-003
 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	19	15	mg/Kg	1	8/18/2022 12:24:49 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 12:24:49 PM
Surr: DNOP	96.8	21-129	%Rec	1	8/18/2022 12:24:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	8/18/2022 2:11:00 PM
Surr: BFB	102	37.7-212	%Rec	1	8/18/2022 2:11:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.016	mg/Kg	1	8/18/2022 2:11:00 PM
Toluene	ND	0.031	mg/Kg	1	8/18/2022 2:11:00 PM
Ethylbenzene	ND	0.031	mg/Kg	1	8/18/2022 2:11:00 PM
Xylenes, Total	ND	0.063	mg/Kg	1	8/18/2022 2:11:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/18/2022 2:11:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/20/2022 2:20:09 PM

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

Qualifiers:

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

Page 3 of 8

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-38 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/16/2022 11:30:00 AM

 Lab ID:
 2208A84-004
 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 12:38:44 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 12:38:44 PM
Surr: DNOP	89.3	21-129	%Rec	1	8/18/2022 12:38:44 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	8/18/2022 2:30:00 PM
Surr: BFB	104	37.7-212	%Rec	1	8/18/2022 2:30:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.020	mg/Kg	1	8/18/2022 2:30:00 PM
Toluene	ND	0.039	mg/Kg	1	8/18/2022 2:30:00 PM
Ethylbenzene	ND	0.039	mg/Kg	1	8/18/2022 2:30:00 PM
Xylenes, Total	ND	0.079	mg/Kg	1	8/18/2022 2:30:00 PM
Surr: 4-Bromofluorobenzene	99.8	70-130	%Rec	1	8/18/2022 2:30:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	190	60	mg/Kg	20	8/20/2022 2:32:34 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

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

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 8

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-40 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/16/2022 1:00:00 PM

 Lab ID:
 2208A84-005
 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 12:52:49 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/18/2022 12:52:49 PM
Surr: DNOP	102	21-129	%Rec	1	8/18/2022 12:52:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	8/18/2022 2:50:00 PM
Surr: BFB	105	37.7-212	%Rec	1	8/18/2022 2:50:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.020	mg/Kg	1	8/18/2022 2:50:00 PM
Toluene	ND	0.041	mg/Kg	1	8/18/2022 2:50:00 PM
Ethylbenzene	ND	0.041	mg/Kg	1	8/18/2022 2:50:00 PM
Xylenes, Total	ND	0.081	mg/Kg	1	8/18/2022 2:50:00 PM
Surr: 4-Bromofluorobenzene	98.9	70-130	%Rec	1	8/18/2022 2:50:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	220	60	mg/Kg	20	8/20/2022 2:44:58 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208A84**

23-Aug-22

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Separator

Sample ID: MB-69605 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **69605** RunNo: **90460**

Prep Date: 8/18/2022 Analysis Date: 8/20/2022 SeqNo: 3228049 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-69605 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69605 RunNo: 90460

Prep Date: 8/18/2022 Analysis Date: 8/20/2022 SeqNo: 3228050 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.0 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

#: 2208A84 23-Aug-22

WO#:

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Separator

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: **LCSS** Batch ID: A90390 RunNo: 90390 Units: mg/Kg Prep Date: Analysis Date: 8/18/2022 SeqNo: 3225322 Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Gasoline Range Organics (GRO) 25 5.0 25.00 0 102 72.3 137 Surr: BFB 2200 1000 218 37.7 212 S

Sample ID: mb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: Batch ID: A90390 **PBS** RunNo: 90390 Prep Date: Analysis Date: 8/18/2022 SeqNo: 3225323 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 1000 1000 103 37.7 212

Qualifiers:

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

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208A84**

23-Aug-22

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Separator

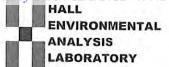
Sample ID: 100ng btex Ics	Samp	Гуре: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batc	h ID: B9	0390	F	RunNo: 90	0390				
Prep Date:	Analysis [Date: 8/	18/2022	SeqNo: 3225327		Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	83.4	80	120			
Toluene	0.86	0.050	1.000	0	85.6	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.2	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	70	130			

Sample ID: mb	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batcl	n ID: B9	0390	F	RunNo: 90	0390				
Prep Date:	Analysis D	Date: 8/	18/2022	SeqNo: 3225328 Units: mg/l				Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	70	130			

Qualifiers:

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

Page 8 of 8



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 Nu	ımber: 220	8A84			RcptNo: 1
Received By:	Tracy Casarrubias	8/18/2022 7:15:0	00 AM				
Completed By:	Tracy Casarrubias	8/18/2022 8:15:2	4 AM				
Reviewed By:	KPG 8.18.	2.7					
Chain of Cust		C					
1. Is Chain of Cu	ustody complete?		Yes	V	No		Not Present
2. How was the	sample delivered?		Cou	rier			
Log In							
CONTRACTOR STREET IN SEC.	pt made to cool the sample	es?	Yes	V	No		NA 🗆
4. Were all samp	les received at a temperati	ure of >0° C to 6.0°C	Yes	V	No		NA 🗆
5. Sample(s) in p	proper container(s)?		Yes	✓	No		
6. Sufficient samp	ole volume for indicated tes	st(s)?	Yes	V	No [
7. Are samples (e	except VOA and ONG) prop	perly preserved?	Yes	~	No [
8. Was preservat	ive added to bottles?		Yes		No [V	NA 🗆
9. Received at lea	ast 1 vial with headspace <	1/4" for AQ VOA?	Yes		No [NA 🗹
10. Were any sam	ple containers received bro	oken?	Yes		No	V	# of preserved
	rk match bottle labels? ncies on chain of custody)		Yes	V	No [bottles checked for pH: (<2 or >12 unless noted)
	orrectly identified on Chain	of Custody?	Yes	V	No [Adjusted?
	analyses were requested?		Yes	V	No [
	g times able to be met? stomer for authorization.)		Yes	V	No [
	ng (if applicable)						
	ified of all discrepancies wi	th this order?	Yes		No		NA 🗹
Person N	Notified:	Dat	te:			-	
By Whor	n:	Via		ail 🔲	Phone	Fax	☐ In Person
Regardin	ng:						
Client Ins	structions:						
16. Additional rem	narks:						
17. <u>Cooler Inform</u> Cooler No	Temp °C Condition	Seal Intact Seal No Yes	Seal D	ate	Signed B	у	

Phone #: email or Fax#: QA/QC Package: Accreditation: Date Time Mi P:35 P:35 P:36 I:30 I:30		e: ZGCTB / CSCPORTOR) O1720 -00/ O1720 -00/ Gretuding OF): \$\frac{1}{2} \frac{1}{2} \f	(\$100 \ PATE \ P	## ANALYS Www.hallenvir Www.hallenvir Www.hallenvir PAHs by 8310 or 8270SIMS Analys Analys Analys Analys	Www.hallenvironmental.com kins NE - Abuquerque, NM 87109 RCRA 8 Metals ROS (VOA) RANIJON (Semi-VOA) Total Coliform (Present/Absent) Total Coliform (Present/Absent)
Re Re	Relinquished by: Relinquished by: Received by: Received by: Received by:	Pate Time Date Time	Remarks: QC,	CC: Charel Direct 8:11	ome Divori 8:11 Deron



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

August 23, 2022

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

FAX:

RE: Onyx 29 CTB1 Separator OrderNo.: 2208A84

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/18/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-35 1'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/16/2022 9:30:00 AM

 Lab ID:
 2208A84-001
 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	8/18/2022 11:56:59 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	8/18/2022 11:56:59 AM
Surr: DNOP	88.2	21-129	%Rec	1	8/18/2022 11:56:59 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	8/18/2022 1:11:00 PM
Surr: BFB	104	37.7-212	%Rec	1	8/18/2022 1:11:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.016	mg/Kg	1	8/18/2022 1:11:00 PM
Toluene	ND	0.031	mg/Kg	1	8/18/2022 1:11:00 PM
Ethylbenzene	ND	0.031	mg/Kg	1	8/18/2022 1:11:00 PM
Xylenes, Total	ND	0.063	mg/Kg	1	8/18/2022 1:11:00 PM
Surr: 4-Bromofluorobenzene	97.9	70-130	%Rec	1	8/18/2022 1:11:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/20/2022 1:55:18 PM

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

Qualifiers:

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

Page 1 of 8

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-36 1

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/16/2022 9:35:00 AM

 Lab ID:
 2208A84-002
 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses Analyst: **DGH EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/18/2022 12:10:51 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/18/2022 12:10:51 PM Surr: DNOP 92.6 21-129 %Rec 1 8/18/2022 12:10:51 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/18/2022 1:51:00 PM 3.5 mg/Kg 1 Surr: BFB 104 37.7-212 %Rec 1 8/18/2022 1:51:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 0.017 8/18/2022 1:51:00 PM mg/Kg 1 Toluene ND 0.035 mg/Kg 1 8/18/2022 1:51:00 PM Ethylbenzene ND 0.035 mg/Kg 1 8/18/2022 1:51:00 PM Xylenes, Total ND mg/Kg 8/18/2022 1:51:00 PM 0.069 1 Surr: 4-Bromofluorobenzene 99.2 70-130 %Rec 1 8/18/2022 1:51:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 8/20/2022 2:07:43 PM ND 60 20

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

Qualifiers:

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

Page 2 of 8

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-37 1'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/16/2022 9:40:00 AM

 Lab ID:
 2208A84-003
 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	19	15	mg/Kg	1	8/18/2022 12:24:49 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 12:24:49 PM
Surr: DNOP	96.8	21-129	%Rec	1	8/18/2022 12:24:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	8/18/2022 2:11:00 PM
Surr: BFB	102	37.7-212	%Rec	1	8/18/2022 2:11:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.016	mg/Kg	1	8/18/2022 2:11:00 PM
Toluene	ND	0.031	mg/Kg	1	8/18/2022 2:11:00 PM
Ethylbenzene	ND	0.031	mg/Kg	1	8/18/2022 2:11:00 PM
Xylenes, Total	ND	0.063	mg/Kg	1	8/18/2022 2:11:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/18/2022 2:11:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/20/2022 2:20:09 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 8

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-38 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/16/2022 11:30:00 AM

 Lab ID:
 2208A84-004
 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 12:38:44 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/18/2022 12:38:44 PM
Surr: DNOP	89.3	21-129	%Rec	1	8/18/2022 12:38:44 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	8/18/2022 2:30:00 PM
Surr: BFB	104	37.7-212	%Rec	1	8/18/2022 2:30:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.020	mg/Kg	1	8/18/2022 2:30:00 PM
Toluene	ND	0.039	mg/Kg	1	8/18/2022 2:30:00 PM
Ethylbenzene	ND	0.039	mg/Kg	1	8/18/2022 2:30:00 PM
Xylenes, Total	ND	0.079	mg/Kg	1	8/18/2022 2:30:00 PM
Surr: 4-Bromofluorobenzene	99.8	70-130	%Rec	1	8/18/2022 2:30:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	190	60	mg/Kg	20	8/20/2022 2:32:34 PM

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

Qualifiers:

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

Page 4 of 8

Date Reported: 8/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-40 2'

 Project:
 Onyx 29 CTB1 Separator
 Collection Date: 8/16/2022 1:00:00 PM

 Lab ID:
 2208A84-005
 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 12:52:49 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/18/2022 12:52:49 PM
Surr: DNOP	102	21-129	%Rec	1	8/18/2022 12:52:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	8/18/2022 2:50:00 PM
Surr: BFB	105	37.7-212	%Rec	1	8/18/2022 2:50:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.020	mg/Kg	1	8/18/2022 2:50:00 PM
Toluene	ND	0.041	mg/Kg	1	8/18/2022 2:50:00 PM
Ethylbenzene	ND	0.041	mg/Kg	1	8/18/2022 2:50:00 PM
Xylenes, Total	ND	0.081	mg/Kg	1	8/18/2022 2:50:00 PM
Surr: 4-Bromofluorobenzene	98.9	70-130	%Rec	1	8/18/2022 2:50:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	220	60	mg/Kg	20	8/20/2022 2:44:58 PM

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

Qualifiers:

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

ple pH Not In Range Page 5 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **2208A84 23-Aug-22**

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Separator

Sample ID: MB-69605 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 69605 RunNo: 90460

Prep Date: 8/18/2022 Analysis Date: 8/20/2022 SeqNo: 3228049 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-69605 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69605 RunNo: 90460

Prep Date: 8/18/2022 Analysis Date: 8/20/2022 SeqNo: 3228050 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.0 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix 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

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Hall Environmental Analysis Laboratory, Inc.

2208A84 23-Aug-22

WO#:

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Separator

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: A90390 RunNo: 90390 Units: mg/Kg Prep Date: Analysis Date: 8/18/2022 SeqNo: 3225322 Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Gasoline Range Organics (GRO) 25 5.0 25.00 0 102 72.3 137 Surr: BFB 2200 1000 218 37.7 212 S

Sample ID: mb SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: Batch ID: A90390 **PBS** RunNo: 90390 Prep Date: Analysis Date: 8/18/2022 SeqNo: 3225323 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 1000 1000 103 37.7 212

Qualifiers:

- Value exceeds Maximum Contaminant 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208A84 23-Aug-22**

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Separator

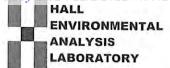
Sample ID: 100ng btex Ics	Samp ⁻	Гуре: LC :	s	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batc	h ID: B9 0	0390	F	RunNo: 90	0390				
Prep Date:	Analysis [Date: 8/ 1	18/2022	5	SeqNo: 32	225327	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	83.4	80	120			
Toluene	0.86	0.050	1.000	0	85.6	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.2	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	70	130			

Sample ID: mb	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batcl	n ID: B9	0390	F	RunNo: 90	0390				
Prep Date:	Analysis D	Date: 8/	18/2022	SeqNo: 3225328			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	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 Quanitative 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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Vertex Resources Services, Inc.	Work Order Nun	nber: 220	8A84		Rcptl	No: 1
Received By:	Tracy Casarrubias	8/18/2022 7:15:00	AM				
Completed By:	Tracy Casarrubias	8/18/2022 8:15:24	AM				
Reviewed By:	KPG 8.18.	27					
Chain of Cus							
	ustody complete?		Yes	V	No [Not Present	1
2. How was the	sample delivered?		Cou	rier			
Log In							
Property of the last of the la	npt made to cool the sample	es?	Yes	V	No [□ NA □)
4. Were all samp	ples received at a temperati	ure of >0° C to 6.0°C	Yes	V	No [□ NA □]
5. Sample(s) in p	proper container(s)?		Yes	V	No []	
6. Sufficient sam	ple volume for indicated tes	st(s)?	Yes	V	No [1	
7. Are samples (except VOA and ONG) prop	perly preserved?	Yes	~	No []	
8. Was preserva	tive added to bottles?		Yes		No 🗸	NA 🗆	
9. Received at le	east 1 vial with headspace <	1/4" for AQ VOA?	Yes		No [NA ☑	
0, Were any san	nple containers received bro	oken?	Yes		No 🔽	# of preserved	
	ork match bottle labels?		Yes	V	No [bottles checked for pH:	
	correctly identified on Chain	of Custody?	Yes	V	No [or >12 unless noted)
	t analyses were requested?	- 100 C C C C C C C C C C C C C C C C C C	Yes	✓	No [
4. Were all holding	ng times able to be met? ustomer for authorization.)			V	No 🗆	Checked by:	Jul 18/15
pecial Handli	ing (if applicable)						
15. Was client no	tified of all discrepancies wi	th this order?	Yes		No [NA ☑]
Person	Notified:	Date				-	
By Who	m:	Via:	□ еМа	ail 🔲	Phone F	ax In Person	
Regardi	ng:						
Client In	nstructions:						
16. Additional ren	marks:						
17. <u>Cooler Inforr</u> Cooler No		Seal Intact Seal No	Seal Da	ate	Signed By		

Client: Devon / Vertex Mailing Address: Don File Phone #: QA/QC Package: Standard Lev	dy Record	□ Standard Project Name: Oryx 29 Project #: ZZE-0/72 Project Manager: Kunt Sta	29 CTB / 29	FRUSH Salve down GTB / (SEPOTATEOF) 20-001	(Odivios	9 0	Www wins N 45-39 345-39	ALYS ALYS Anallenv Anally Anally Anally	LYSIS LAE LYSIS LAE allenvironmental.cc - Albuquerque, NI 5 Fax 505-345- Analysis Request 6 % 6 % 10 % 10 % 10 % 10 % 10 % 10 % 10 % 10	HALL ENVIRONMENTAL ANALYSIS LABORATOR) www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request O O O O O O O O O O O O O O O O O O	NTAL
Accreditation: Daz Connected Net Az Connected Net Az Control Date Time Matrix Style="background-color: 150;"	Sample Name **LESZZ-35 **LESZZ-36 **LESZZ-37 **L	Sampler: CA On Ice: Tree # of Coolers: I Cooler Temp(metuding cr): S Container Preservativ Type and # Type # OZ ICC	M 🚆 M	3-0.1=5.7 (°C) 3-0.1=5.7 (°C) 22.08.48.4 (°C) 00.2 00.2 00.3 00.4 00.5	TPH:8015D(GRO / DR	808/Pesticides/808	EDB (Method 504.1) PAHs by 8310 or 827	RCRA 8 Metals	(AOV) 09S8 (AOV-im9Z) 07S8	Total Coliform (Prese	
Time: Reling	Time: Relinquished by: Received by: Receiv	Received by: Received by:	Via:	Pate Time Date Time Date Time P. 15	Remarks:		0.7C. C. C		ance Divort 8:11 Devon 2/029815	2 6 5	



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

August 22, 2022

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

FAX

RE: Onyx 29 CTB1 OrderNo.: 2208A82

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 9 sample(s) on 8/18/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-01 4'

 Project:
 Onyx 29 CTB1
 Collection Date: 8/17/2022 12:00:00 PM

 Lab ID:
 2208A82-001
 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 1:06:46 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/18/2022 1:06:46 PM
Surr: DNOP	92.6	21-129	%Rec	1	8/18/2022 1:06:46 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	8/18/2022 10:14:00 AM
Surr: BFB	102	37.7-212	%Rec	1	8/18/2022 10:14:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.016	mg/Kg	1	8/18/2022 10:14:00 AM
Toluene	ND	0.033	mg/Kg	1	8/18/2022 10:14:00 AM
Ethylbenzene	ND	0.033	mg/Kg	1	8/18/2022 10:14:00 AM
Xylenes, Total	ND	0.065	mg/Kg	1	8/18/2022 10:14:00 AM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	8/18/2022 10:14:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/18/2022 10:40:35 AM

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

Qualifiers:

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

Page 1 of 13

Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-02 5'

 Project:
 Onyx 29 CTB1
 Collection Date: 8/17/2022 12:10:00 PM

 Lab ID:
 2208A82-002
 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 1:20:52 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/18/2022 1:20:52 PM
Surr: DNOP	87.8	21-129	%Rec	1	8/18/2022 1:20:52 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	8/18/2022 10:34:00 AM
Surr: BFB	103	37.7-212	%Rec	1	8/18/2022 10:34:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.017	mg/Kg	1	8/18/2022 10:34:00 AM
Toluene	ND	0.034	mg/Kg	1	8/18/2022 10:34:00 AM
Ethylbenzene	ND	0.034	mg/Kg	1	8/18/2022 10:34:00 AM
Xylenes, Total	ND	0.069	mg/Kg	1	8/18/2022 10:34:00 AM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	8/18/2022 10:34:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/18/2022 10:52:59 AM

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

Qualifiers:

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

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Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-05 5'

 Project:
 Onyx 29 CTB1
 Collection Date: 8/17/2022 12:15:00 PM

 Lab ID:
 2208A82-003
 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 1:34:55 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/18/2022 1:34:55 PM
Surr: DNOP	93.4	21-129	%Rec	1	8/18/2022 1:34:55 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	8/18/2022 10:53:00 AM
Surr: BFB	102	37.7-212	%Rec	1	8/18/2022 10:53:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.018	mg/Kg	1	8/18/2022 10:53:00 AM
Toluene	ND	0.035	mg/Kg	1	8/18/2022 10:53:00 AM
Ethylbenzene	ND	0.035	mg/Kg	1	8/18/2022 10:53:00 AM
Xylenes, Total	ND	0.071	mg/Kg	1	8/18/2022 10:53:00 AM
Surr: 4-Bromofluorobenzene	99.7	70-130	%Rec	1	8/18/2022 10:53:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/18/2022 11:05:23 AM

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

Qualifiers:

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

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Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-06 4'

 Project:
 Onyx 29 CTB1
 Collection Date: 8/17/2022 12:20:00 PM

 Lab ID:
 2208A82-004
 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 1:49:01 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/18/2022 1:49:01 PM
Surr: DNOP	89.6	21-129	%Rec	1	8/18/2022 1:49:01 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	8/18/2022 11:13:00 AM
Surr: BFB	100	37.7-212	%Rec	1	8/18/2022 11:13:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.016	mg/Kg	1	8/18/2022 11:13:00 AM
Toluene	ND	0.032	mg/Kg	1	8/18/2022 11:13:00 AM
Ethylbenzene	ND	0.032	mg/Kg	1	8/18/2022 11:13:00 AM
Xylenes, Total	ND	0.064	mg/Kg	1	8/18/2022 11:13:00 AM
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	8/18/2022 11:13:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/18/2022 11:17:48 AM

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

Qualifiers:

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

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Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-07 4'

 Project:
 Onyx 29 CTB1
 Collection Date: 8/17/2022 12:25:00 PM

 Lab ID:
 2208A82-005
 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 2:02:54 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/18/2022 2:02:54 PM
Surr: DNOP	93.6	21-129	%Rec	1	8/18/2022 2:02:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	8/18/2022 11:32:00 AM
Surr: BFB	99.9	37.7-212	%Rec	1	8/18/2022 11:32:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.017	mg/Kg	1	8/18/2022 11:32:00 AM
Toluene	ND	0.034	mg/Kg	1	8/18/2022 11:32:00 AM
Ethylbenzene	ND	0.034	mg/Kg	1	8/18/2022 11:32:00 AM
Xylenes, Total	ND	0.067	mg/Kg	1	8/18/2022 11:32:00 AM
Surr: 4-Bromofluorobenzene	95.5	70-130	%Rec	1	8/18/2022 11:32:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	59	mg/Kg	20	8/18/2022 11:30:13 AM

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

Qualifiers:

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

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Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-41 1'

 Project:
 Onyx 29 CTB1
 Collection Date: 8/17/2022 12:30:00 PM

 Lab ID:
 2208A82-006
 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 2:16:49 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/18/2022 2:16:49 PM
Surr: DNOP	83.9	21-129	%Rec	1	8/18/2022 2:16:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	8/18/2022 11:52:00 AM
Surr: BFB	99.9	37.7-212	%Rec	1	8/18/2022 11:52:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.018	mg/Kg	1	8/18/2022 11:52:00 AM
Toluene	ND	0.036	mg/Kg	1	8/18/2022 11:52:00 AM
Ethylbenzene	ND	0.036	mg/Kg	1	8/18/2022 11:52:00 AM
Xylenes, Total	ND	0.073	mg/Kg	1	8/18/2022 11:52:00 AM
Surr: 4-Bromofluorobenzene	97.7	70-130	%Rec	1	8/18/2022 11:52:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/18/2022 11:42:38 AM

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

Qualifiers:

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

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Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-42 1'

 Project:
 Onyx 29 CTB1
 Collection Date: 8/17/2022 12:35:00 PM

 Lab ID:
 2208A82-007
 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 2:31:03 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/18/2022 2:31:03 PM
Surr: DNOP	88.3	21-129	%Rec	1	8/18/2022 2:31:03 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	8/18/2022 12:12:00 PM
Surr: BFB	103	37.7-212	%Rec	1	8/18/2022 12:12:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.016	mg/Kg	1	8/18/2022 12:12:00 PM
Toluene	ND	0.032	mg/Kg	1	8/18/2022 12:12:00 PM
Ethylbenzene	ND	0.032	mg/Kg	1	8/18/2022 12:12:00 PM
Xylenes, Total	ND	0.064	mg/Kg	1	8/18/2022 12:12:00 PM
Surr: 4-Bromofluorobenzene	96.7	70-130	%Rec	1	8/18/2022 12:12:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/18/2022 11:55:02 AM

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

Qualifiers:

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

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Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-43 2'

 Project:
 Onyx 29 CTB1
 Collection Date: 8/17/2022 12:40:00 PM

 Lab ID:
 2208A82-008
 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/18/2022 2:44:51 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/18/2022 2:44:51 PM
Surr: DNOP	91.4	21-129	%Rec	1	8/18/2022 2:44:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	8/18/2022 12:31:00 PM
Surr: BFB	97.3	37.7-212	%Rec	1	8/18/2022 12:31:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.017	mg/Kg	1	8/18/2022 12:31:00 PM
Toluene	ND	0.034	mg/Kg	1	8/18/2022 12:31:00 PM
Ethylbenzene	ND	0.034	mg/Kg	1	8/18/2022 12:31:00 PM
Xylenes, Total	ND	0.067	mg/Kg	1	8/18/2022 12:31:00 PM
Surr: 4-Bromofluorobenzene	95.0	70-130	%Rec	1	8/18/2022 12:31:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/18/2022 12:07:27 PM

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

Qualifiers:

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

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Date Reported: 8/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-44 2'

 Project:
 Onyx 29 CTB1
 Collection Date: 8/17/2022 12:45:00 PM

 Lab ID:
 2208A82-009
 Matrix: SOIL
 Received Date: 8/18/2022 7:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OI	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/18/2022 2:58:49 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/18/2022 2:58:49 PM
Surr: DNOP	89.2	21-129	%Rec	1	8/18/2022 2:58:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	8/18/2022 12:51:00 PM
Surr: BFB	98.5	37.7-212	%Rec	1	8/18/2022 12:51:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.016	mg/Kg	1	8/18/2022 12:51:00 PM
Toluene	ND	0.031	mg/Kg	1	8/18/2022 12:51:00 PM
Ethylbenzene	ND	0.031	mg/Kg	1	8/18/2022 12:51:00 PM
Xylenes, Total	ND	0.062	mg/Kg	1	8/18/2022 12:51:00 PM
Surr: 4-Bromofluorobenzene	97.4	70-130	%Rec	1	8/18/2022 12:51:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/18/2022 12:44:42 PM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208A82 22-Aug-22**

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1

Sample ID: MB-69603 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 69603 RunNo: 90384

Prep Date: 8/18/2022 Analysis Date: 8/18/2022 SeqNo: 3226290 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-69603 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69603 RunNo: 90384

Prep Date: 8/18/2022 Analysis Date: 8/18/2022 SeqNo: 3226292 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.4 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208A82 22-Aug-22**

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1

Sample ID: 2208A82-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BES22-01 4' Batch ID: 69593 RunNo: 90393

Prep Date: 8/18/2022 Analysis Date: 8/18/2022 SegNo: 3225976 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Diesel Range Organics (DRO) 14 0 40 46.73 85.6 36.1 154

 Surr: DNOP
 3.7
 4.673
 79.8
 21
 129

Sample ID: 2208A82-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BES22-01 4' Batch ID: 69593 RunNo: 90393

Prep Date: 8/18/2022 Analysis Date: 8/18/2022 SeqNo: 3225977 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 44 33.9 14 48.12 0 90.9 36.1 154 9.02 Surr: DNOP 4.0 4.812 82.3 21 129 0 0

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208A82 22-Aug-22**

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: A90390 RunNo: 90390 Prep Date: Analysis Date: 8/18/2022 SeqNo: 3225322 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Gasoline Range Organics (GRO) 25 5.0 25.00 Λ 102 72.3 137 Surr: BFB 2200 1000 218 37.7 212 S

Sample ID: mb TestCode: EPA Method 8015D: Gasoline Range SampType: MBLK Client ID: PBS Batch ID: A90390 RunNo: 90390 Prep Date: Analysis Date: 8/18/2022 SeqNo: 3225323 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 1000 1000 103 37.7 212

Sample ID: 2208a82-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: BES22-01 4' Batch ID: A90390 RunNo: 90390 Prep Date: Analysis Date: 8/18/2022 SeqNo: 3225325 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Gasoline Range Organics (GRO) 25 5.0 25.00 0 99.8 70 130 Surr: BFB 2100 1000 211 37.7 212

TestCode: EPA Method 8015D: Gasoline Range Sample ID: 2208a82-001amsd SampType: MSD Client ID: BES22-01 4' Batch ID: A90390 RunNo: 90390 Prep Date: Analysis Date: 8/18/2022 SeqNo: 3225326 Units: mg/Kg Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 24 5.0 25.00 97.5 70 130 2.39 20 Surr: BFB 2100 1000 206 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208A82 22-Aug-22**

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1

Sample ID: 100ng btex Ics	Samp1	ype: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	h ID: B9	0390	RunNo: 90390						
Prep Date:	Analysis D	Date: 8/	18/2022	S	SeqNo: 3	225327	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	83.4	80	120			
Toluene	0.86	0.050	1.000	0	85.6	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.2	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.1	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	70	130			

Sample ID: mb	Sampl	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batcl	n ID: B9	0390	F	RunNo: 9	0390				
Prep Date:	Analysis [Date: 8/	18/2022	8	SeqNo: 3	225328	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.6	70	130			

Sample ID: 2208a82-002ams	Samp ⁻	Гуре: М\$	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: BES22-02 5'	Batc	h ID: B9	0390	F	RunNo: 9	0390				
Prep Date:	Analysis [Date: 8/	18/2022	S	SeqNo: 3	225329	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.2	68.8	120			
Toluene	0.91	0.050	1.000	0	90.5	73.6	124			
Ethylbenzene	0.92	0.050	1.000	0	91.9	72.7	129			
Xylenes, Total	2.8	0.10	3.000	0	91.8	75.7	126			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.0	70	130			

Sample ID: 2208a82-002ams	d SampT	Гуре: МЅ	SD.	Tes	tCode: El	PA Method	8021B: Vola	iles		
Client ID: BES22-02 5'	Batcl	h ID: B9	0390	F	RunNo: 9	0390				
Prep Date:	Analysis D	Date: 8/	18/2022	9	SeqNo: 3	225330	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.1	68.8	120	3.60	20	
Toluene	0.87	0.050	1.000	0	87.2	73.6	124	3.69	20	
Ethylbenzene	0.89	0.050	1.000	0	88.8	72.7	129	3.42	20	
Xylenes, Total	2.7	0.10	3.000	0	88.4	75.7	126	3.86	20	
Surr: 4-Bromofluorobenzene	0.91		1.000		91.0	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 Quanitative Limit
- 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

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LABORATORY

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 Nur	nber: 2208A82		RcptNo: 1	
Received By:	Tracy Casarrubias	8/18/2022 7:15:00	AM			
Completed By:	Tracy Casarrubias	8/18/2022 8:00:00	AM			
Reviewed By:	KPG 8:18	.22				
Chain of Cust						
1. Is Chain of Cu	ustody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
Log In						
	pt made to cool the sample	es?	Yes 🗸	No 🗌	NA 🗆	
4. Were all samp	les received at a temperati	ure of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗆	
5. Sample(s) in p	proper container(s)?		Yes 🔽	No. 🗆		
6. Sufficient samp	ple volume for indicated tes	st(s)?	Yes 🗸	No 🗌		
7. Are samples (e	except VOA and ONG) prop	perly preserved?	Yes 🗸	No 🗆		
8. Was preservat	ive added to bottles?		Yes	No 🗸	NA 🗌	
9. Received at lea	ast 1 vial with headspace <	1/4" for AQ VOA?	Yes	No 🗆	NA 🔽	
10. Were any sam	ple containers received bro	oken?	Yes	No 🗸	# of preserved	
	rk match bottle labels? ncies on chain of custody)		Yes 🔽	No 🗆	bottles checked for pH: (<2 or >12 ur	aless noted)
	orrectly identified on Chain	of Custody?	Yes 🗸	No 🗌	Adjusted?	
3. Is it clear what	analyses were requested?		Yes 🗸	No 🗆		1 1
	g times able to be met? stomer for authorization.)		Yes 🗸	No 🗆	Checked by: J/L	8/18/2.
	ng (if applicable)					
	ified of all discrepancies wi	th this order?	Yes	No 🗆	NA 🗸	
Person N	Notified:	Date				
By Whor	m:	Via:		hone Fax	In Person	
Regardin	ng;			- 7 (7) - 1 7 300		
Client Ins	structions:					
16. Additional rem	narks:					
7. <u>Cooler Inform</u> Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		

Chai	n-of-C	Chain-of-Custody Record	Turn-Around Time:	Time:							
Client: D &	Devon/vereex	ereex	☐ Standard		K Rush Samu Dawk		ANAL	L EN	I SI	HALL ENVIRONMENTAL ANALYSTS I ABORATOR	AL
			Project Name:					John Commission of the Commiss		The state of the s	
Mailing Address:	00	FIR	7.07	MCTBI		4901 H	awkins N	E - Albu	adnerque	4901 Hawkins NE - Albuquerque, NM 87109	
	1		Project #:			Tel. 50	505-345-3975	75 Fz	Fax 505-	505-345-4107	
Phone #:			336	22E-01720-00	1 00			Inal	sis Request	lest	
email or Fax#:			Project Manager	iger:				†O	F	(tr	-
QA/QC Package:	: •	☐ Level 4 (Full Validation)	Kent	H Stallings	ngs	ьсв,г О / мвс (805)	SMISC	PO¢, S		nəsdA∖tı	
Accreditation:		☐ Az Compliance	Sampler: (V)			BD		O ⁵ '		Jəs:	
□ NELAC	□ Other		On Ice:	X Yes	No □	/ 07		_	(A	Pre	
□ EDD (Type))		# of Coolers:	-		49)		103) w.	
			Cooler Temp(including CF):5	(including CF):5.3	(0.) 7:5:1.0-	USP)		٤٢, ١/		olifor	
Date Time	Matrix	Sample Name	Container Type and #	Preservative Type	12208A87	X∃ТВ 08:НЧТ Ч 1808	N) BD3 SHA9		7) 0928 2) 0728	O lstoT	
00: >/ 1/13	11.05 0	8 6522-01 4	206	707	100	7	1.00				
0:2/	-	86522-02 5'	-	1	002	1		-			
51:21	5	BE522-05 5'			003						
12:20	0	B 6522-06 4			600						
72:22	La	BES22-07 4'			000						
72:30	.0	45522-41 1'			200						
58:21	5	WES 22-42 1			£00						
72:40	0	WES22-43 21			900						
25.27	30	wess-44 2'	_		600	-		-			
Date: Time:	Relinquished by:	ed by:	Received by:	Via:	4 Date Time	Remarks: $\boldsymbol{\mathcal{C}}$	CC: Charel Direct B		Dixon		
Date: Time:	Relinquished by:	ed by:		Via: Ce	Date Time 7: 15	3	i	2102 9	5186		

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BES22-09 8' **CLIENT:** Devon Energy

Onyx 29 CTB1 Separator **Collection Date: 8/18/2022 2:00:00 PM Project:** Lab ID: 2208C61-001 Matrix: SOIL Received Date: 8/20/2022 8:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	8/22/2022 10:13:59 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	8/22/2022 10:13:59 AM
Surr: DNOP	103	21-129	%Rec	1	8/22/2022 10:13:59 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	8/22/2022 10:44:00 AM
Surr: BFB	95.7	37.7-212	%Rec	1	8/22/2022 10:44:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.017	mg/Kg	1	8/22/2022 10:44:00 AM
Toluene	ND	0.034	mg/Kg	1	8/22/2022 10:44:00 AM
Ethylbenzene	ND	0.034	mg/Kg	1	8/22/2022 10:44:00 AM
Xylenes, Total	ND	0.068	mg/Kg	1	8/22/2022 10:44:00 AM
Surr: 4-Bromofluorobenzene	91.1	70-130	%Rec	1	8/22/2022 10:44:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/22/2022 11:57:00 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Leve

Sample Diluted Due to Matrix Holding times for preparation or analysis exceed B Analyte detected in the associated Method Blank
E Estimated value
Analyte detected below quantitation limits

Н ND Not Detected at the Reporting Limit

Sample pH Not In Range

PQL Practical Quanitative Limit

Reporting Limit

% Recovery outside of range due to dilution or matrix interference

Page 1 of 0

D

CLIENT: Devon Energy

Analytical Report Lab Order 2208C61

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BES22-10 8'

Onyx 29 CTB1 Separator **Collection Date:** 8/18/2022 2:10:00 PM **Project:**

Lab ID: 2208C61-002 Matrix: SOIL Received Date: 8/20/2022 8:45:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/22/2022 10:37:55 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/22/2022 10:37:55 AM
Surr: DNOP	99.0	21-129	%Rec	1	8/22/2022 10:37:55 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	8/22/2022 11:03:00 AM
Surr: BFB	99.5	37.7-212	%Rec	1	8/22/2022 11:03:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.015	mg/Kg	1	8/22/2022 11:03:00 AM
Toluene	ND	0.031	mg/Kg	1	8/22/2022 11:03:00 AM
Ethylbenzene	ND	0.031	mg/Kg	1	8/22/2022 11:03:00 AM
Xylenes, Total	ND	0.061	mg/Kg	1	8/22/2022 11:03:00 AM
Surr: 4-Bromofluorobenzene	91.7	70-130	%Rec	1	8/22/2022 11:03:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	8/22/2022 12:09:00 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Leve

Sample Diluted Due to Matrix

B Analyte detected in the associated Method Blank
E Estimated value
Analyte detected below quantitation limits

Holding times for preparation or analysis exceed Н

ND Not Detected at the Reporting Limit Sample pH Not In Range

PQL Practical Quanitative Limit % Recovery outside of range due to dilution or matrix interference

Page 2 of 0 Reporting Limit

D

2208G90-001

Lab ID:

Chloride

Analytical Report Lab Order 2208G90

8/29/2022 5:47:50 PM

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

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

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22 - 45 3'

Project: Onyx 29 CT B1 Separator Collection Date: 8/26/2022 9:30:00 AM Matrix: MEOH (SOIL)

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/30/2022 3:01:56 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/30/2022 3:01:56 AM 21-129 Surr: DNOP 91.4 %Rec 1 8/30/2022 3:01:56 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/27/2022 3:36:00 PM 4.0 mg/Kg 1 Surr: BFB 110 37.7-212 %Rec 1 8/27/2022 3:36:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 0.020 mg/Kg 8/27/2022 3:36:00 PM 1 Toluene ND 0.040 mg/Kg 1 8/27/2022 3:36:00 PM Ethylbenzene ND 0.040 mg/Kg 1 8/27/2022 3:36:00 PM Xylenes, Total ND 0.080 mg/Kg 1 8/27/2022 3:36:00 PM 8/27/2022 3:36:00 PM Surr: 4-Bromofluorobenzene 101 70-130 %Rec 1 **EPA METHOD 300.0: ANIONS** Analyst: JTT

ND

60

ma/Ka

20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit RL

Page 1 of 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22 - 46 3'

Onyx 29 CT B1 Separator **Project:** Collection Date: 8/26/2022 9:35:00 AM

2208G90-002 Lab ID: Matrix: MEOH (SOIL) Received Date: 8/27/2022 9:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/30/2022 3:13:00 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/30/2022 3:13:00 AM
Surr: DNOP	92.0	21-129	%Rec	1	8/30/2022 3:13:00 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	8/27/2022 3:56:00 PM
Surr: BFB	103	37.7-212	%Rec	1	8/27/2022 3:56:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.017	mg/Kg	1	8/27/2022 3:56:00 PM
Toluene	ND	0.034	mg/Kg	1	8/27/2022 3:56:00 PM
Ethylbenzene	ND	0.034	mg/Kg	1	8/27/2022 3:56:00 PM
Xylenes, Total	ND	0.068	mg/Kg	1	8/27/2022 3:56:00 PM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	8/27/2022 3:56:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/29/2022 6:25:03 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Page 2 of 0 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22 - 47 3'

 Project:
 Onyx 29 CT B1 Separator
 Collection Date: 8/26/2022 9:40:00 AM

 Lab ID:
 2208G90-003
 Matrix: MEOH (SOIL)
 Received Date: 8/27/2022 9:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/30/2022 3:34:56 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/30/2022 3:34:56 AM
Surr: DNOP	94.6	21-129	%Rec	1	8/30/2022 3:34:56 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	8/27/2022 4:16:00 PM
Surr: BFB	111	37.7-212	%Rec	1	8/27/2022 4:16:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.017	mg/Kg	1	8/27/2022 4:16:00 PM
Toluene	ND	0.034	mg/Kg	1	8/27/2022 4:16:00 PM
Ethylbenzene	ND	0.034	mg/Kg	1	8/27/2022 4:16:00 PM
Xylenes, Total	ND	0.068	mg/Kg	1	8/27/2022 4:16:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/27/2022 4:16:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/29/2022 6:37:28 PM

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

Qualifiers:

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

Page 3 of 0

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22 - 48 3'

Project: Onyx 29 CT B1 Separator **Collection Date:** 8/26/2022 9:45:00 AM

Lab ID: 2208G90-004 **Matrix:** MEOH (SOIL) **Received Date:** 8/27/2022 9:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/30/2022 3:45:57 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/30/2022 3:45:57 AM
Surr: DNOP	96.0	21-129	%Rec	1	8/30/2022 3:45:57 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	8/27/2022 4:35:00 PM
Surr: BFB	108	37.7-212	%Rec	1	8/27/2022 4:35:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.019	mg/Kg	1	8/27/2022 4:35:00 PM
Toluene	ND	0.039	mg/Kg	1	8/27/2022 4:35:00 PM
Ethylbenzene	ND	0.039	mg/Kg	1	8/27/2022 4:35:00 PM
Xylenes, Total	ND	0.077	mg/Kg	1	8/27/2022 4:35:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/27/2022 4:35:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/29/2022 6:49:53 PM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22 - 49 1'

Project: Onyx 29 CT B1 Separator **Collection Date:** 8/26/2022 9:50:00 AM

Lab ID: 2208G90-005 **Matrix:** MEOH (SOIL) **Received Date:** 8/27/2022 9:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/30/2022 3:56:59 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/30/2022 3:56:59 AM
Surr: DNOP	93.8	21-129	%Rec	1	8/30/2022 3:56:59 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	8/27/2022 4:55:00 PM
Surr: BFB	109	37.7-212	%Rec	1	8/27/2022 4:55:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.018	mg/Kg	1	8/27/2022 4:55:00 PM
Toluene	ND	0.037	mg/Kg	1	8/27/2022 4:55:00 PM
Ethylbenzene	ND	0.037	mg/Kg	1	8/27/2022 4:55:00 PM
Xylenes, Total	ND	0.073	mg/Kg	1	8/27/2022 4:55:00 PM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	8/27/2022 4:55:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/29/2022 7:02:17 PM

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

Qualifiers:

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

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Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22 - 50 0.5'

 Project:
 Onyx 29 CT B1 Separator
 Collection Date: 8/26/2022 9:55:00 AM

 Lab ID:
 2208G90-006
 Matrix: MEOH (SOIL)
 Received Date: 8/27/2022 9:35:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/30/2022 4:07:53 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/30/2022 4:07:53 AM
Surr: DNOP	86.0	21-129	%Rec	1	8/30/2022 4:07:53 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	8/27/2022 5:34:00 PM
Surr: BFB	107	37.7-212	%Rec	1	8/27/2022 5:34:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.018	mg/Kg	1	8/27/2022 5:34:00 PM
Toluene	ND	0.037	mg/Kg	1	8/27/2022 5:34:00 PM
Ethylbenzene	ND	0.037	mg/Kg	1	8/27/2022 5:34:00 PM
Xylenes, Total	ND	0.073	mg/Kg	1	8/27/2022 5:34:00 PM
Surr: 4-Bromofluorobenzene	99.5	70-130	%Rec	1	8/27/2022 5:34:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	8/29/2022 7:14:42 PM

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

Qualifiers:

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

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2208G90-007

Lab ID:

Analytical Report Lab Order 2208G90

Date Reported:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22 - 23 1'

Project: Onyx 29 CT B1 Separator Collection Date: 8/26/2022 10:00:00 AM Matrix: MEOH (SOIL)

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 15 mg/Kg 1 8/30/2022 4:18:41 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 8/30/2022 4:18:41 AM Surr: DNOP 88.1 21-129 %Rec 1 8/30/2022 4:18:41 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 8/27/2022 5:54:00 PM 3.4 mg/Kg 1 Surr: BFB 102 37.7-212 %Rec 1 8/27/2022 5:54:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 0.017 mg/Kg 8/27/2022 5:54:00 PM 1 Toluene ND 0.034 mg/Kg 1 8/27/2022 5:54:00 PM Ethylbenzene ND 0.034 mg/Kg 1 8/27/2022 5:54:00 PM Xylenes, Total ND 0.068 mg/Kg 1 8/27/2022 5:54:00 PM 8/27/2022 5:54:00 PM Surr: 4-Bromofluorobenzene 98.5 70-130 %Rec 1 Analyst: JTT **EPA METHOD 300.0: ANIONS** Chloride ND 60 8/29/2022 7:27:06 PM ma/Ka 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit RL

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

June 07, 2022

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

FAX:

RE: Onyx 29 CTB1 OrderNo.: 2205B74

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 23 sample(s) on 5/26/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-01 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 8:30:00 AM

 Lab ID:
 2205B74-001
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: ED
Diesel Range Organics (DRO)	20	9.6	mg/Kg	1	5/31/2022 3:47:57 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/31/2022 3:47:57 PM
Surr: DNOP	61.6	51.1-141	%Rec	1	5/31/2022 3:47:57 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/28/2022 2:22:02 AM
Surr: BFB	91.4	37.7-212	%Rec	1	5/28/2022 2:22:02 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	5/28/2022 2:22:02 AM
Toluene	ND	0.047	mg/Kg	1	5/28/2022 2:22:02 AM
Ethylbenzene	ND	0.047	mg/Kg	1	5/28/2022 2:22:02 AM
Xylenes, Total	ND	0.093	mg/Kg	1	5/28/2022 2:22:02 AM
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	5/28/2022 2:22:02 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	61	mg/Kg	20	6/1/2022 10:34:46 PM

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

Qualifiers:

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

Page 1 of 31

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-02 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 8:40:00 AM

 Lab ID:
 2205B74-002
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE (ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/31/2022 4:11:53 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/31/2022 4:11:53 PM
Surr: DNOP	57.9	51.1-141	%Rec	1	5/31/2022 4:11:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/28/2022 3:32:52 AM
Surr: BFB	97.7	37.7-212	%Rec	1	5/28/2022 3:32:52 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/28/2022 3:32:52 AM
Toluene	ND	0.047	mg/Kg	1	5/28/2022 3:32:52 AM
Ethylbenzene	ND	0.047	mg/Kg	1	5/28/2022 3:32:52 AM
Xylenes, Total	ND	0.095	mg/Kg	1	5/28/2022 3:32:52 AM
Surr: 4-Bromofluorobenzene	98.0	70-130	%Rec	1	5/28/2022 3:32:52 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	5400	300	mg/Kg	100	6/2/2022 12:06:38 PM

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

Qualifiers:

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

Page 2 of 31

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-02 2'

Onyx 29 CTB1 **Project: Collection Date:** 5/24/2022 8:45:00 AM 2205B74-003 Lab ID: Matrix: SOIL **Received Date:** 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/31/2022 4:35:37 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/31/2022 4:35:37 PM
Surr: DNOP	64.1	51.1-141	%Rec	1	5/31/2022 4:35:37 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/28/2022 3:56:23 AM
Surr: BFB	96.6	37.7-212	%Rec	1	5/28/2022 3:56:23 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/28/2022 3:56:23 AM
Toluene	ND	0.049	mg/Kg	1	5/28/2022 3:56:23 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/28/2022 3:56:23 AM
Xylenes, Total	ND	0.098	mg/Kg	1	5/28/2022 3:56:23 AM
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	5/28/2022 3:56:23 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	2700	150	mg/Kg	50	6/2/2022 12:19:03 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Page 3 of 31 RL Reporting Limit

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-02 4'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 1:15:00 PM

 Lab ID:
 2205B74-004
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/31/2022 4:59:23 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/31/2022 4:59:23 PM
Surr: DNOP	59.9	51.1-141	%Rec	1	5/31/2022 4:59:23 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/28/2022 4:20:05 AM
Surr: BFB	98.0	37.7-212	%Rec	1	5/28/2022 4:20:05 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	5/28/2022 4:20:05 AM
Toluene	ND	0.046	mg/Kg	1	5/28/2022 4:20:05 AM
Ethylbenzene	ND	0.046	mg/Kg	1	5/28/2022 4:20:05 AM
Xylenes, Total	ND	0.092	mg/Kg	1	5/28/2022 4:20:05 AM
Surr: 4-Bromofluorobenzene	97.1	70-130	%Rec	1	5/28/2022 4:20:05 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	260	61	mg/Kg	20	6/2/2022 12:01:38 AM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-03 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 8:50:00 AM

 Lab ID:
 2205B74-005
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst: ED
Diesel Range Organics (DRO)	4100	95		mg/Kg	10	6/1/2022 12:24:41 PM
Motor Oil Range Organics (MRO)	2400	470		mg/Kg	10	6/1/2022 12:24:41 PM
Surr: DNOP	0	51.1-141	S	%Rec	10	6/1/2022 12:24:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/28/2022 4:43:44 AM
Surr: BFB	93.4	37.7-212		%Rec	1	5/28/2022 4:43:44 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/28/2022 4:43:44 AM
Toluene	ND	0.047		mg/Kg	1	5/28/2022 4:43:44 AM
Ethylbenzene	ND	0.047		mg/Kg	1	5/28/2022 4:43:44 AM
Xylenes, Total	ND	0.094		mg/Kg	1	5/28/2022 4:43:44 AM
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	5/28/2022 4:43:44 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	5500	150		mg/Kg	50	6/2/2022 12:31:27 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-03 2'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 8:55:00 AM

 Lab ID:
 2205B74-006
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE (DRGANICS				Analyst: ED
Diesel Range Organics (DRO)	240	9.6	mg/Kg	1	6/1/2022 1:12:26 PM
Motor Oil Range Organics (MRO)	140	48	mg/Kg	1	6/1/2022 1:12:26 PM
Surr: DNOP	93.2	51.1-141	%Rec	1	6/1/2022 1:12:26 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/28/2022 5:30:59 AM
Surr: BFB	96.0	37.7-212	%Rec	1	5/28/2022 5:30:59 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	5/28/2022 5:30:59 AM
Toluene	ND	0.049	mg/Kg	1	5/28/2022 5:30:59 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/28/2022 5:30:59 AM
Xylenes, Total	ND	0.099	mg/Kg	1	5/28/2022 5:30:59 AM
Surr: 4-Bromofluorobenzene	98.5	70-130	%Rec	1	5/28/2022 5:30:59 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	3700	150	mg/Kg	50	6/2/2022 1:08:39 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-04 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 9:00:00 AM

 Lab ID:
 2205B74-007
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: ED
Diesel Range Organics (DRO)	12	9.0	mg/Kg	1	5/31/2022 6:11:58 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/31/2022 6:11:58 PM
Surr: DNOP	75.3	51.1-141	%Rec	1	5/31/2022 6:11:58 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/28/2022 5:54:36 AM
Surr: BFB	99.6	37.7-212	%Rec	1	5/28/2022 5:54:36 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/28/2022 5:54:36 AM
Toluene	ND	0.048	mg/Kg	1	5/28/2022 5:54:36 AM
Ethylbenzene	ND	0.048	mg/Kg	1	5/28/2022 5:54:36 AM
Xylenes, Total	ND	0.097	mg/Kg	1	5/28/2022 5:54:36 AM
Surr: 4-Bromofluorobenzene	95.7	70-130	%Rec	1	5/28/2022 5:54:36 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	98	60	mg/Kg	20	6/2/2022 12:38:51 AM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-05 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 9:10:00 AM

 Lab ID:
 2205B74-008
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: ED
Diesel Range Organics (DRO)	29	9.4	mg/Kg	1	5/31/2022 6:36:29 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/31/2022 6:36:29 PM
Surr: DNOP	78.6	51.1-141	%Rec	1	5/31/2022 6:36:29 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/28/2022 6:18:19 AM
Surr: BFB	93.9	37.7-212	%Rec	1	5/28/2022 6:18:19 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	5/28/2022 6:18:19 AM
Toluene	ND	0.046	mg/Kg	1	5/28/2022 6:18:19 AM
Ethylbenzene	ND	0.046	mg/Kg	1	5/28/2022 6:18:19 AM
Xylenes, Total	ND	0.092	mg/Kg	1	5/28/2022 6:18:19 AM
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	1	5/28/2022 6:18:19 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	73	60	mg/Kg	20	6/2/2022 12:51:17 AM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-06 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 9:15:00 AM

 Lab ID:
 2205B74-009
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	17	10	mg/Kg	1	5/31/2022 7:00:53 PM
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	5/31/2022 7:00:53 PM
Surr: DNOP	71.5	51.1-141	%Rec	1	5/31/2022 7:00:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/28/2022 6:41:58 AM
Surr: BFB	94.5	37.7-212	%Rec	1	5/28/2022 6:41:58 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	5/28/2022 6:41:58 AM
Toluene	ND	0.047	mg/Kg	1	5/28/2022 6:41:58 AM
Ethylbenzene	ND	0.047	mg/Kg	1	5/28/2022 6:41:58 AM
Xylenes, Total	ND	0.093	mg/Kg	1	5/28/2022 6:41:58 AM
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	5/28/2022 6:41:58 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	5000	150	mg/Kg	50	6/2/2022 1:21:03 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-06 2'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 9:20:00 AM

 Lab ID:
 2205B74-010
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/31/2022 7:25:13 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/31/2022 7:25:13 PM
Surr: DNOP	69.8	51.1-141	%Rec	1	5/31/2022 7:25:13 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/28/2022 7:05:38 AM
Surr: BFB	91.8	37.7-212	%Rec	1	5/28/2022 7:05:38 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/28/2022 7:05:38 AM
Toluene	ND	0.049	mg/Kg	1	5/28/2022 7:05:38 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/28/2022 7:05:38 AM
Xylenes, Total	ND	0.097	mg/Kg	1	5/28/2022 7:05:38 AM
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	5/28/2022 7:05:38 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	4500	150	mg/Kg	50	6/2/2022 1:33:28 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-06 6'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 1:45:00 PM

 Lab ID:
 2205B74-011
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/31/2022 7:49:27 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/31/2022 7:49:27 PM
Surr: DNOP	71.5	51.1-141	%Rec	1	5/31/2022 7:49:27 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/28/2022 7:29:19 AM
Surr: BFB	92.6	37.7-212	%Rec	1	5/28/2022 7:29:19 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	5/28/2022 7:29:19 AM
Toluene	ND	0.046	mg/Kg	1	5/28/2022 7:29:19 AM
Ethylbenzene	ND	0.046	mg/Kg	1	5/28/2022 7:29:19 AM
Xylenes, Total	ND	0.092	mg/Kg	1	5/28/2022 7:29:19 AM
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	5/28/2022 7:29:19 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	120	60	mg/Kg	20	6/2/2022 1:28:30 AM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-07 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 10:20:00 AM

 Lab ID:
 2205B74-012
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/27/2022 1:09:32 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/27/2022 1:09:32 PM
Surr: DNOP	78.1	51.1-141	%Rec	1	5/27/2022 1:09:32 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	100	60	mg/Kg	20	6/2/2022 1:40:54 AM
EPA METHOD 8260B: VOLATILES SHOR	RT LIST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	5/27/2022 1:54:40 PM
Toluene	ND	0.050	mg/Kg	1	5/27/2022 1:54:40 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/27/2022 1:54:40 PM
Xylenes, Total	ND	0.10	mg/Kg	1	5/27/2022 1:54:40 PM
Surr: 1,2-Dichloroethane-d4	97.6	70-130	%Rec	1	5/27/2022 1:54:40 PM
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	5/27/2022 1:54:40 PM
Surr: Dibromofluoromethane	111	70-130	%Rec	1	5/27/2022 1:54:40 PM
Surr: Toluene-d8	99.1	70-130	%Rec	1	5/27/2022 1:54:40 PM
EPA METHOD 8015D MOD: GASOLINE F	RANGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/27/2022 1:54:40 PM
Surr: BFB	107	70-130	%Rec	1	5/27/2022 1:54:40 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-08 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 9:25:00 AM

 Lab ID:
 2205B74-013
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: SB
Diesel Range Organics (DRO)	7100	94		mg/Kg	10	5/27/2022 7:21:06 PM
Motor Oil Range Organics (MRO)	4700	470		mg/Kg	10	5/27/2022 7:21:06 PM
Surr: DNOP	0	51.1-141	S	%Rec	10	5/27/2022 7:21:06 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1300	61		mg/Kg	20	6/2/2022 2:18:07 AM
EPA METHOD 8260B: VOLATILES SHORT LI	ST					Analyst: JR
Benzene	ND	0.024		mg/Kg	1	5/27/2022 3:20:57 PM
Toluene	ND	0.048		mg/Kg	1	5/27/2022 3:20:57 PM
Ethylbenzene	ND	0.048		mg/Kg	1	5/27/2022 3:20:57 PM
Xylenes, Total	ND	0.095		mg/Kg	1	5/27/2022 3:20:57 PM
Surr: 1,2-Dichloroethane-d4	97.7	70-130		%Rec	1	5/27/2022 3:20:57 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/27/2022 3:20:57 PM
Surr: Dibromofluoromethane	114	70-130		%Rec	1	5/27/2022 3:20:57 PM
Surr: Toluene-d8	98.1	70-130		%Rec	1	5/27/2022 3:20:57 PM
EPA METHOD 8015D MOD: GASOLINE RAN	GE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/27/2022 3:20:57 PM
Surr: BFB	109	70-130		%Rec	1	5/27/2022 3:20:57 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-08 2'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 9:30:00 AM

 Lab ID:
 2205B74-014
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	76	10	mg/Kg	1	5/27/2022 1:33:59 PM
Motor Oil Range Organics (MRO)	72	50	mg/Kg	1	5/27/2022 1:33:59 PM
Surr: DNOP	98.3	51.1-141	%Rec	1	5/27/2022 1:33:59 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	4700	150	mg/Kg	50	6/2/2022 1:45:52 PM
EPA METHOD 8260B: VOLATILES SHORT	Γ LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 4:47:23 PM
Toluene	ND	0.048	mg/Kg	1	5/27/2022 4:47:23 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/27/2022 4:47:23 PM
Xylenes, Total	ND	0.096	mg/Kg	1	5/27/2022 4:47:23 PM
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	5/27/2022 4:47:23 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/27/2022 4:47:23 PM
Surr: Dibromofluoromethane	119	70-130	%Rec	1	5/27/2022 4:47:23 PM
Surr: Toluene-d8	96.9	70-130	%Rec	1	5/27/2022 4:47:23 PM
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/27/2022 4:47:23 PM
Surr: BFB	107	70-130	%Rec	1	5/27/2022 4:47:23 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-08 5'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 1:40:00 PM

 Lab ID:
 2205B74-015
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	120	9.4	mg/Kg	1	5/27/2022 1:58:24 PM
Diesel Range Organics (DRO)	ND		mg/Kg	1	5/27/2022 1:58:24 PM
Motor Oil Range Organics (MRO)	ND		mg/Kg	1	5/27/2022 1:58:24 PM
Motor Oil Range Organics (MRO)	120	47	mg/Kg	1	5/27/2022 1:58:24 PM
Surr: DNOP		-	%Rec	1	5/27/2022 1:58:24 PM
Surr: DNOP	104	51.1-141	%Rec	1	5/27/2022 1:58:24 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	720	60	mg/Kg	20	6/2/2022 2:42:57 AM
EPA METHOD 8260B: VOLATILES SHORT LIS	Т				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	5/27/2022 5:16:12 PM
Toluene	ND	0.050	mg/Kg	1	5/27/2022 5:16:12 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/27/2022 5:16:12 PM
Xylenes, Total	ND	0.099	mg/Kg	1	5/27/2022 5:16:12 PM
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	5/27/2022 5:16:12 PM
Surr: 4-Bromofluorobenzene	97.9	70-130	%Rec	1	5/27/2022 5:16:12 PM
Surr: Dibromofluoromethane	122	70-130	%Rec	1	5/27/2022 5:16:12 PM
Surr: Toluene-d8	96.8	70-130	%Rec	1	5/27/2022 5:16:12 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/27/2022 5:16:12 PM
Surr: BFB	108	70-130	%Rec	1	5/27/2022 5:16:12 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-09 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 9:35:00 AM

 Lab ID:
 2205B74-016
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGAI	NICS				Analyst: SB
Diesel Range Organics (DRO)	16	9.3	mg/Kg	1	5/31/2022 12:32:21 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/31/2022 12:32:21 PM
Surr: DNOP	82.5	51.1-141	%Rec	1	5/31/2022 12:32:21 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	370	60	mg/Kg	20	6/2/2022 2:55:22 AM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 5:45:01 PM
Toluene	ND	0.049	mg/Kg	1	5/27/2022 5:45:01 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 5:45:01 PM
Xylenes, Total	ND	0.098	mg/Kg	1	5/27/2022 5:45:01 PM
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	5/27/2022 5:45:01 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	5/27/2022 5:45:01 PM
Surr: Dibromofluoromethane	116	70-130	%Rec	1	5/27/2022 5:45:01 PM
Surr: Toluene-d8	98.6	70-130	%Rec	1	5/27/2022 5:45:01 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 5:45:01 PM
Surr: BFB	109	70-130	%Rec	1	5/27/2022 5:45:01 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-10 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 9:45:00 AM

 Lab ID:
 2205B74-017
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	390	9.7	mg/Kg	1	5/27/2022 2:22:47 PM
Motor Oil Range Organics (MRO)	370	48	mg/Kg	1	5/27/2022 2:22:47 PM
Surr: DNOP	104	51.1-141	%Rec	1	5/27/2022 2:22:47 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	20000	1500	mg/Kg	500	6/2/2022 1:58:16 PM
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 6:13:46 PM
Toluene	ND	0.049	mg/Kg	1	5/27/2022 6:13:46 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 6:13:46 PM
Xylenes, Total	ND	0.098	mg/Kg	1	5/27/2022 6:13:46 PM
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	5/27/2022 6:13:46 PM
Surr: 4-Bromofluorobenzene	96.7	70-130	%Rec	1	5/27/2022 6:13:46 PM
Surr: Dibromofluoromethane	115	70-130	%Rec	1	5/27/2022 6:13:46 PM
Surr: Toluene-d8	97.1	70-130	%Rec	1	5/27/2022 6:13:46 PM
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 6:13:46 PM
Surr: BFB	107	70-130	%Rec	1	5/27/2022 6:13:46 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-10 2'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 9:50:00 AM

 Lab ID:
 2205B74-018
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE (ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	49	10	mg/Kg	1	5/31/2022 8:37:47 PM
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	5/31/2022 8:37:47 PM
Surr: DNOP	71.7	51.1-141	%Rec	1	5/31/2022 8:37:47 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	7200	300	mg/Kg	100	6/2/2022 2:10:40 PM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 6:42:26 PM
Toluene	ND	0.048	mg/Kg	1	5/27/2022 6:42:26 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/27/2022 6:42:26 PM
Xylenes, Total	ND	0.097	mg/Kg	1	5/27/2022 6:42:26 PM
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	5/27/2022 6:42:26 PM
Surr: 4-Bromofluorobenzene	98.9	70-130	%Rec	1	5/27/2022 6:42:26 PM
Surr: Dibromofluoromethane	116	70-130	%Rec	1	5/27/2022 6:42:26 PM
Surr: Toluene-d8	98.6	70-130	%Rec	1	5/27/2022 6:42:26 PM
EPA METHOD 8015D MOD: GASOLINE RA	ANGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/27/2022 6:42:26 PM
Surr: BFB	109	70-130	%Rec	1	5/27/2022 6:42:26 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-10 3'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 1:10:00 PM

 Lab ID:
 2205B74-019
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/27/2022 3:11:44 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/27/2022 3:11:44 PM
Surr: DNOP	58.5	51.1-141	%Rec	1	5/27/2022 3:11:44 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	430	60	mg/Kg	20	6/2/2022 3:32:36 AM
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 7:11:06 PM
Toluene	ND	0.047	mg/Kg	1	5/27/2022 7:11:06 PM
Ethylbenzene	ND	0.047	mg/Kg	1	5/27/2022 7:11:06 PM
Xylenes, Total	ND	0.094	mg/Kg	1	5/27/2022 7:11:06 PM
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	5/27/2022 7:11:06 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/27/2022 7:11:06 PM
Surr: Dibromofluoromethane	115	70-130	%Rec	1	5/27/2022 7:11:06 PM
Surr: Toluene-d8	99.5	70-130	%Rec	1	5/27/2022 7:11:06 PM
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/27/2022 7:11:06 PM
Surr: BFB	109	70-130	%Rec	1	5/27/2022 7:11:06 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-11 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 9:55:00 AM

 Lab ID:
 2205B74-020
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/27/2022 3:36:12 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/27/2022 3:36:12 PM
Surr: DNOP	51.5	51.1-141	%Rec	1	5/27/2022 3:36:12 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	230	60	mg/Kg	20	6/1/2022 5:14:13 PM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 7:39:44 PM
Toluene	ND	0.048	mg/Kg	1	5/27/2022 7:39:44 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/27/2022 7:39:44 PM
Xylenes, Total	ND	0.097	mg/Kg	1	5/27/2022 7:39:44 PM
Surr: 1,2-Dichloroethane-d4	96.3	70-130	%Rec	1	5/27/2022 7:39:44 PM
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	5/27/2022 7:39:44 PM
Surr: Dibromofluoromethane	114	70-130	%Rec	1	5/27/2022 7:39:44 PM
Surr: Toluene-d8	100	70-130	%Rec	1	5/27/2022 7:39:44 PM
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/27/2022 7:39:44 PM
Surr: BFB	108	70-130	%Rec	1	5/27/2022 7:39:44 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-12 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 10:05:00 AM

 Lab ID:
 2205B74-021
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/27/2022 4:00:38 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/27/2022 4:00:38 PM
Surr: DNOP	59.9	51.1-141	%Rec	1	5/27/2022 4:00:38 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	17000	600	mg/Kg	200	6/2/2022 10:39:49 AM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	5/27/2022 8:08:26 PM
Toluene	ND	0.049	mg/Kg	1	5/27/2022 8:08:26 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 8:08:26 PM
Xylenes, Total	ND	0.099	mg/Kg	1	5/27/2022 8:08:26 PM
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	5/27/2022 8:08:26 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/27/2022 8:08:26 PM
Surr: Dibromofluoromethane	113	70-130	%Rec	1	5/27/2022 8:08:26 PM
Surr: Toluene-d8	101	70-130	%Rec	1	5/27/2022 8:08:26 PM
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 8:08:26 PM
Surr: BFB	113	70-130	%Rec	1	5/27/2022 8:08:26 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-12 2'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 10:10:00 AM

 Lab ID:
 2205B74-022
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/31/2022 9:01:57 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/31/2022 9:01:57 PM
Surr: DNOP	58.7	51.1-141	%Rec	1	5/31/2022 9:01:57 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	230	60	mg/Kg	20	6/1/2022 6:03:37 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	5/27/2022 8:37:02 PM
Toluene	ND	0.049	mg/Kg	1	5/27/2022 8:37:02 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 8:37:02 PM
Xylenes, Total	ND	0.099	mg/Kg	1	5/27/2022 8:37:02 PM
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	5/27/2022 8:37:02 PM
Surr: 4-Bromofluorobenzene	98.0	70-130	%Rec	1	5/27/2022 8:37:02 PM
Surr: Dibromofluoromethane	114	70-130	%Rec	1	5/27/2022 8:37:02 PM
Surr: Toluene-d8	100	70-130	%Rec	1	5/27/2022 8:37:02 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 8:37:02 PM
Surr: BFB	107	70-130	%Rec	1	5/27/2022 8:37:02 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-03 5'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 1:35:00 PM

 Lab ID:
 2205B74-023
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	480	9.9	mg/Kg	1	5/27/2022 4:49:38 PM
Motor Oil Range Organics (MRO)	460	49	mg/Kg	1	5/27/2022 4:49:38 PM
Surr: DNOP	113	51.1-141	%Rec	1	5/27/2022 4:49:38 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	640	60	mg/Kg	20	6/1/2022 6:15:57 PM
EPA METHOD 8260B: VOLATILES SHORT LI	IST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 9:05:34 PM
Toluene	ND	0.049	mg/Kg	1	5/27/2022 9:05:34 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 9:05:34 PM
Xylenes, Total	ND	0.098	mg/Kg	1	5/27/2022 9:05:34 PM
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	5/27/2022 9:05:34 PM
Surr: 4-Bromofluorobenzene	95.1	70-130	%Rec	1	5/27/2022 9:05:34 PM
Surr: Dibromofluoromethane	111	70-130	%Rec	1	5/27/2022 9:05:34 PM
Surr: Toluene-d8	97.1	70-130	%Rec	1	5/27/2022 9:05:34 PM
EPA METHOD 8015D MOD: GASOLINE RAN	GE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 9:05:34 PM
Surr: BFB	105	70-130	%Rec	1	5/27/2022 9:05:34 PM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

O#: **2205B74** *07-Jun-22*

WO#:

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1

Sample ID: MB-67840 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 67840 RunNo: 88422

Prep Date: 6/1/2022 Analysis Date: 6/1/2022 SeqNo: 3137024 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-67840 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67840 RunNo: 88422

Prep Date: 6/1/2022 Analysis Date: 6/1/2022 SeqNo: 3137025 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.6 90 110

Sample ID: MB-67832 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 67832 RunNo: 88432

Prep Date: 6/1/2022 Analysis Date: 6/1/2022 SeqNo: 3137379 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-67832 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67832 RunNo: 88432

Prep Date: 6/1/2022 Analysis Date: 6/1/2022 SeqNo: 3137380 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.2 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2205B74 07-Jun-22

Client: Vertex Resources Services, Inc.

Project: Onyx 29	CTB1										
Sample ID: LCS-67737	SampT	ype: LC	s	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch	ID: 67 7	737	F	RunNo: 88332						
Prep Date: 5/26/2022	Analysis D	ate: 5/ 2	27/2022	SeqNo: 3132996			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	40	10	50.00	0	80.3	64.4	127				
Surr: DNOP	4.1		5.000		81.2	51.1	141				
Sample ID: MB-67737	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die:	sel Range	Organics		
Client ID: PBS	Batch	ID: 67 7	737	F	RunNo: 88	3332					
Prep Date: 5/26/2022	Analysis D	ate: 5/ 2	27/2022	5	SeqNo: 31	132997	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	9.2		10.00		92.1	51.1	141				
Sample ID: 2205B74-012AMSE	SampT	уре: М.	SD	Tes	tCode: EF	PA Method	8015M/D: Diesel Range Organics				
Client ID: BH22-07 0'	Batch	ID: 67 7	737	RunNo: 88332							
Prep Date: 5/26/2022	Analysis D	ate: 5/ 3	27/2022	5	SeqNo: 3134548 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	39	9.5	47.66	0	82.1	36.1	154	11.6	33.9		
Surr: DNOP	1.0		4.766		21.5	51.1	141	0	0	S	
Sample ID: MB-67765	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	Organics		
Client ID: PBS	Batch	ID: 67 7	765	F	RunNo: 88	3381					
Prep Date: 5/27/2022	Analysis D	ate: 5/ 3	31/2022	5	SeqNo: 31	135345	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	6.8		10.00		68.2	51.1	141				
Sample ID: 2205B74-012AMS	SampT	уре: М.	3	Tes	tCode: EF	A Method	8015M/D: Die:	sel Range	Organics		
Client ID: BH22-07 0'	Batch	ID: 67 7	737	F	RunNo: 88	3381					
Prep Date: 5/26/2022	Analysis D	ate: 5/ 3	31/2022	5	SeqNo: 31	135370	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Discal Dance Organics (DDO)	54	10	50.00	0	108	36.1	154				
Diesel Range Organics (DRO)	54	10	30.00	U	106	30.1	154				

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2205B74 07-Jun-22**

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1

Sample ID:	2205B74-012AMSD	SampT	SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID:	BH22-07 0'	Batch ID: 67737 RunNo: 88381										
Prep Date:	5/26/2022	Analysis D	ate: 5/ 3	31/2022	SeqNo: 3135371			Units: mg/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range (Organics (DRO)	50	9.5	47.66	0	104	36.1	154	8.29	33.9		
Surr: DNOP		2.7		4.766		57.2	51.1	141	0	0		

Sample ID: LCS-67765	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	ID: 677	765	F	RunNo: 88	3381				
Prep Date: 5/27/2022	Analysis D	ate: 5/ 3	31/2022	5	SeqNo: 31	135454	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.9	64.4	127			
Surr: DNOP	2.7		5.000		53.2	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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

2205B74 07-Jun-22

WO#:

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1

Sample ID: mb-67730 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 67730 RunNo: 88348

Prep Date: 5/26/2022 Analysis Date: 5/27/2022 SeqNo: 3133399 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 99.9 37.7 212

Sample ID: Ics-67730 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 67730 RunNo: 88348

Prep Date: 5/26/2022 Analysis Date: 5/27/2022 SeqNo: 3133400 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 29 25.00 116 72.3 Surr: BFB S 2200 1000 219 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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

2205B74 07-Jun-22

WO#:

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1

Sample ID: mb-67730 SampType: MBLK TestCode: EPA Method 8021B: Volatiles PBS Client ID: Batch ID: 67730 RunNo: 88348 Prep Date: 5/26/2022 Analysis Date: 5/27/2022 SeqNo: 3133452 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual Benzene ND 0.025 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 1.0 1.000 103 70 130

Sample ID: LCS-67730 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 67730 RunNo: 88348 Analysis Date: 5/27/2022 Prep Date: SeqNo: 3133453 5/26/2022 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.025 1.000 94.6 120 Benzene 0.95 0 80 Toluene 0.97 0.050 1.000 0 97.5 80 120 Ethylbenzene 0.050 1.000 0 97.3 80 120 0.97 0 98.8 Xylenes, Total 3.0 0.10 3.000 80 120 Surr: 4-Bromofluorobenzene 1.0 1.000 101 70 130

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2205B74** *07-Jun-22*

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1

Sample ID: 2205b74-013ams	Samp1	уре: МЅ	4	Tes	tCode: EF	PA Method	8260B: Volati	iles Short	List	
Client ID: BH22-08 0'	Batcl	n ID: 677	'32	F	RunNo: 88	3359				
Prep Date: 5/26/2022	Analysis D	Date: 5/2	27/2022	9	SeqNo: 31	134178	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9515	0	96.3	63.5	137			
Toluene	1.0	0.048	0.9515	0	106	77.6	127			
Ethylbenzene	1.0	0.048	0.9515	0	106	77.9	129			
Xylenes, Total	3.1	0.095	2.854	0	108	76.8	127			
Surr: 1,2-Dichloroethane-d4	0.47		0.4757		98.2	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.4757		99.5	70	130			
Surr: Dibromofluoromethane	0.53		0.4757		111	70	130			
Surr: Toluene-d8	0.47		0.4757		98.9	70	130			

Sample ID: 2205b74-013amsd	Samp ⁻	Гуре: М.	D4	Tes	tCode: EF	PA Method	8260B: Volati	les Short	List	
Client ID: BH22-08 0'	Batc	h ID: 67 7	732	F	RunNo: 88	3359				
Prep Date: 5/26/2022	Analysis [Date: 5/ 2	27/2022	5	SeqNo: 31	134179	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.024	0.9606	0	97.2	63.5	137	1.88	20	
Toluene	0.99	0.048	0.9606	0	103	77.6	127	1.50	20	
Ethylbenzene	1.0	0.048	0.9606	0	104	77.9	129	0.867	20	
Xylenes, Total	3.0	0.096	2.882	0	104	76.8	127	3.53	20	
Surr: 1,2-Dichloroethane-d4	0.51		0.4803		106	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.48		0.4803		99.3	70	130	0	0	
Surr: Dibromofluoromethane	0.56		0.4803		117	70	130	0	0	
Surr: Toluene-d8	0.48		0.4803		99.4	70	130	0	0	

Sample ID: Ics-67732	Samp ⁻	Гуре: LC	S4	Tes	tCode: EF	PA Method	8260B: Volati	les Short	List	
Client ID: BatchQC	Batc	h ID: 677	732	F	RunNo: 88	3359				
Prep Date: 5/26/2022	Analysis [Date: 5/ 2	27/2022	\$	SeqNo: 31	134190	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.4	80	120			
Toluene	0.99	0.050	1.000	0	99.0	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		104	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.0	70	130			
Surr: Dibromofluoromethane	0.58		0.5000		116	70	130			
Surr: Toluene-d8	0.49		0.5000		97.8	70	130			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2205B74 07-Jun-22**

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1

Sample ID: mb-67732 Client ID: PBS	•	Гуре: МВ h ID: 677			tCode: EF RunNo: 88		8260B: Volati	les Short I	_ist	
Prep Date: 5/26/2022	Analysis [Date: 5/2	27/2022	5	SeqNo: 31	134191	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		99.6	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.57		0.5000		113	70	130			
Surr: Toluene-d8	0.50		0.5000		99.5	70	130			

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

Analysis Date: 5/27/2022

ND

550

PQL

5.0

2205B74 07-Jun-22

WO#:

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1

Sample ID:	2205b74-012ams	SampT	уре: М	5	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline R	ange	
Client ID:	BH22-07 0'	Batch	ID: 67	732	F	RunNo: 88	3359				
Prep Date:	5/26/2022	Analysis D	ate: 5/	27/2022	(SeqNo: 31	134153	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	25	4.9	24.53	0	103	61.1	127			
Surr: BFB		490		490.7		101	70	130			
Sample ID:	2205b74-012amsd	SampT	уре: М	SD	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline R	ange	
Client ID:	BH22-07 0'	Batch	ID: 67	732	F	RunNo: 88	3359				
Prep Date:	5/26/2022	Analysis D	ate: 5/	27/2022	5	SeqNo: 31	134154	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	24	4.9	24.32	0	98.2	61.1	127	5.80	20	
Surr: BFB		500		486.4		103	70	130	0	0	
Sample ID:	lcs-67732	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline R	ange	
Client ID:	LCSS	Batch	ID: 67	732	F	RunNo: 88	3359				
Prep Date:	5/26/2022	Analysis D	ate: 5/	27/2022	5	SeqNo: 31	134174	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	23	5.0	25.00	0	93.4	70	130			
Surr: BFB		520		500.0		105	70	130			
Sample ID:	mb-67732	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline R	ange	
Client ID:	PBS	Batch	ID: 67	732	F	RunNo: 88	3359				

SPK value SPK Ref Val %REC

500.0

Qualifiers:

Prep Date:

Surr: BFB

5/26/2022

Gasoline Range Organics (GRO)

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

SeqNo: 3134175

111

Units: mg/Kg

130

%RPD

RPDLimit

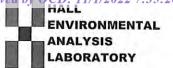
Qual

HighLimit

70

- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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

Sample Log-In Check List

Client Name:	Vertex Res Services, I		Work	Order Num	ber: 220	5B74		F	RcptNo: 1
Received By:	Tracy Cas	sarrubias	5/26/20	22 7:00:00	AM				
Completed By:	Tracy Cas	sarrubias	5/26/20	22 8:24:57	AM				
Reviewed By:	//	26-22							
Chain of Cus	stody								
1. Is Chain of C	100	loto?			V	V	No [Not Preser	. П
							INO L	J Not Preser	nt 🗀
2. How was the	sample deliv	/ered?			Cou	rier			
Log In									
3. Was an atter	mpt made to	cool the samp	oles?		Yes	V	No [] N	A 🗆
4. Were all sam	ples received	l at a tempera	ature of >0° C	to 6.0°C	Yes	V	No [) N	A 🗆
5. Sample(s) in	proper conta	iner(s)?			Yes	V	No []	
6. Sufficient san	nple volume f	or indicated to	est(s)?		Yes	V	No 🗆]	
7. Are samples	(except VOA	and ONG) pr	operly preserve	ed?	Yes	V	No 🗆		
8. Was preserva					Yes		No 🗸) NA	
9. Received at le	east 1 vial wit	h headspace	<1/4" for AQ \	/OA?	Yes		No [l NA	√
10. Were any sai	mple containe	ers received b	oroken?		Yes		No 🔽	1	
								# of preserve	
11. Does paperw (Note discrep			()		Yes	V	No 🗆	ALC: THE PROPERTY OF THE PARTY	(2 or >12 unless noted)
12. Are matrices	correctly iden	tified on Chai	in of Custody?		Yes	~	No [Adjuste	
13. Is it clear wha	t analyses w	ere requested	1?		Yes	V	No 🗆		
14. Were all holdi (If no, notify o			j		Yes	V	No 🗆	Checked	d by: 56 5/26/11
Special Hand	ling (if app	olicable)							
15. Was client no	otified of all d	iscrepancies	with this order?	,	Yes		No [] N	A 🗹
Person	Notified:			Date:				-	
By Who	om:			Via:	□eM	ail 🗆	Phone F	ax In Person	
Regard	ing:			-					
Client I	nstructions:					~			-
16. Additional re	marks:								
17. Cooler Infor	mation								
Cooler No		Condition	Seal Intact	Seal No	Seal D	ate	Signed By		
1	0.5	Good	Yes		Coard		orgined by		
2	3.7	Good	Yes						
3	1.6	Good	Yes			_			
3	1.0-4		100						

1	Juan	-ot-C	Chain-of-Custody Record	urn-Around Time:	d Ime:					Pana Area		
Client:)	levtex		Standard	d Z Rush	n Shan				NATE	HALL ENVIKONMENTAL ANALYSTS LABORATORY	
	MORRICAL MAN	ningo	(MORGOGGGGGG) (DE VON)	Project Name:		11				010	ABORALO	- 17
Mailing	Mailing Address:	S:		Onyx	29 CTB		4901	www.na 4901 Hawkins NF	Ĕ ,	www.nailenviironmentai.com	Shvironmental.com	D: 11
	0	m til	9	Project #:			Tel.	Tel. 505-345-3975		Fax 505	505-345-4107	/1/20
Phone #:	#:	0		22E	-01720	0			Ana	Analysis Request	uest	144 1
email o	email or Fax#:			Project Manager:	lager:				PO		(tr	33.
QA/QC Packa	QA/QC Package:	-	☐ Level 4 (Full Validation)		Movica Peppin		V 75 - 150				ıəsdA\tı	.20 AM
Accreditation: ☐ NELAC	itation: AC	☐ Az Cor☐	☐ Az Compliance ☐ Other	Sampler: C DIXOM,	DIXON,	Scartar	Aa / c	(1.40			reserc	
	□ EDD (Type)			# of Coolers	1000	2	GE()g po	tals		<u>վ</u>) ա	
				Cooler Temp(including CF):		sye Checklist (°C)	12D(ethc	eM 8	(AO	olifor	
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL NO.	BTEX)	8081 Pe EDB (M d sHA9	RCRA 8	V) 0928 S) 0728	Otal Co	
EDUZA		(DOM)	CONTRACTORIZACIO			U						
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-	8:40		BH22-02 (8-	-	200						
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	1:15		BH22-02 4	4,		۲۵۵						
	8:50		BH 22-03), (C		0/13						
	8:55		BH22-03	2,		s op						
	00:10		BH 22-04	,		てのり						
	9:10		BH122-05 (),		00%						
	9:15		BH22-06	0,		500						
	9:20		BH22-06	2,		010						
	54:1		177-06	6.	_	110	_					
Date:	Time:	l CC			Via:	Date Time	Remarks:			,		
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Date:	Time:	Relinquished by:	ed by:	Received by:	Warson	Date Time						e 32
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Client:	VON	Duden (1	t: VOXEN (Dellow)	5		7			Π,	I	1	EN	IIR	HALL ENVIRONMENT	NTAL
	7	3	CEVAL		☐ Standard	d Rush	C MIM		П	A	ANALYSIS	SIS	SL	LABORATORY	ATOR
					rioject ivallie.	<u>v</u>				W	www hallenvironmental com	nviron	menta	moo	
Mailing	Mailing Address:	.;.			OWNE	29 CRB	_	4	4901 Hawkins NF	wkins	Ś			Albuquerque NM 87409	
	NO	n Kile	6		Project #:				Tel 504	505-345-3975		phodic Fax	E PUE	AE 4407	
Phone #:		1			22E-(01720			9.	010	An	Analysis	Reduest	Reduest	
email	email or Fax#:				Project Manager:	ager:		_	1-	H		₽C		(1)	
QA/QC □ Star	QA/QC Package:		☐ Level 4 (Full Validation)	ation)	Monica	a Peppin				SMIS)S '†O-		nəsdA\	
Accred	Accreditation:	256	☐ Az Compliance		Sampler: (DIXON,	SCarter		Z808			NOS		resen	
	□ EDD (Type)				# of Coolers: 4		00		/səp		sls	03,		д) u	
					Cooler Temp	Cooler Temp(including CF); S10	Chack Ist (°C)	1	ioite		Met		-ime	litori	
Date	Time	Matrix	Sample Name		Container Type and #	Preservative Type	HEAL NO.	\ <u>Х</u> ЭТВ 108:НЧТ	8081 Pe	EDB (Ma	8 AADA	©,F, B	8270 (5	oO latoT	
5/24	10:20	Soil	BH22-07	0	1 403 par	ice	210								
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	9:30		BH112-08	2.			010								
	1:40		BH22-08	5'			مالا								
	9.35		BH22-09	0,			9)0								
	9:45		BH 22-10	0			410								
	9:50		BH 22 - 10	2'			810								
	1:10		BH 22 - 10	3,			610								
	9:55		BH22-11	0,			010								
	10:05		BH22-12	ò			120					E			
	10:10		BH22-12	2,			110								
	1:35	-	BH22-03	5'		-	120	_							
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17	3.5	1	100 P		Williamondo	Jum	6	100	NOV	CVCE		2	00.00.00)	
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 07, 2022

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

FAX

RE: Onyx 29 CTB1 OrderNo.: 2205B74

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 23 sample(s) on 5/26/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-01 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 8:30:00 AM

 Lab ID:
 2205B74-001
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: ED
Diesel Range Organics (DRO)	20	9.6	mg/Kg	1	5/31/2022 3:47:57 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/31/2022 3:47:57 PM
Surr: DNOP	61.6	51.1-141	%Rec	1	5/31/2022 3:47:57 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/28/2022 2:22:02 AM
Surr: BFB	91.4	37.7-212	%Rec	1	5/28/2022 2:22:02 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	5/28/2022 2:22:02 AM
Toluene	ND	0.047	mg/Kg	1	5/28/2022 2:22:02 AM
Ethylbenzene	ND	0.047	mg/Kg	1	5/28/2022 2:22:02 AM
Xylenes, Total	ND	0.093	mg/Kg	1	5/28/2022 2:22:02 AM
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	5/28/2022 2:22:02 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	61	mg/Kg	20	6/1/2022 10:34:46 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-02 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 8:40:00 AM

 Lab ID:
 2205B74-002
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/31/2022 4:11:53 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/31/2022 4:11:53 PM
Surr: DNOP	57.9	51.1-141	%Rec	1	5/31/2022 4:11:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/28/2022 3:32:52 AM
Surr: BFB	97.7	37.7-212	%Rec	1	5/28/2022 3:32:52 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/28/2022 3:32:52 AM
Toluene	ND	0.047	mg/Kg	1	5/28/2022 3:32:52 AM
Ethylbenzene	ND	0.047	mg/Kg	1	5/28/2022 3:32:52 AM
Xylenes, Total	ND	0.095	mg/Kg	1	5/28/2022 3:32:52 AM
Surr: 4-Bromofluorobenzene	98.0	70-130	%Rec	1	5/28/2022 3:32:52 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	5400	300	mg/Kg	100	6/2/2022 12:06:38 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-02 2'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 8:45:00 AM

 Lab ID:
 2205B74-003
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/31/2022 4:35:37 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/31/2022 4:35:37 PM
Surr: DNOP	64.1	51.1-141	%Rec	1	5/31/2022 4:35:37 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/28/2022 3:56:23 AM
Surr: BFB	96.6	37.7-212	%Rec	1	5/28/2022 3:56:23 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/28/2022 3:56:23 AM
Toluene	ND	0.049	mg/Kg	1	5/28/2022 3:56:23 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/28/2022 3:56:23 AM
Xylenes, Total	ND	0.098	mg/Kg	1	5/28/2022 3:56:23 AM
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	5/28/2022 3:56:23 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	2700	150	mg/Kg	50	6/2/2022 12:19:03 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-02 4'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 1:15:00 PM

 Lab ID:
 2205B74-004
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: ED				
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/31/2022 4:59:23 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/31/2022 4:59:23 PM
Surr: DNOP	59.9	51.1-141	%Rec	1	5/31/2022 4:59:23 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/28/2022 4:20:05 AM
Surr: BFB	98.0	37.7-212	%Rec	1	5/28/2022 4:20:05 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	5/28/2022 4:20:05 AM
Toluene	ND	0.046	mg/Kg	1	5/28/2022 4:20:05 AM
Ethylbenzene	ND	0.046	mg/Kg	1	5/28/2022 4:20:05 AM
Xylenes, Total	ND	0.092	mg/Kg	1	5/28/2022 4:20:05 AM
Surr: 4-Bromofluorobenzene	97.1	70-130	%Rec	1	5/28/2022 4:20:05 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	260	61	mg/Kg	20	6/2/2022 12:01:38 AM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-03 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 8:50:00 AM

 Lab ID:
 2205B74-005
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: ED
Diesel Range Organics (DRO)	4100	95		mg/Kg	10	6/1/2022 12:24:41 PM
Motor Oil Range Organics (MRO)	2400	470		mg/Kg	10	6/1/2022 12:24:41 PM
Surr: DNOP	0	51.1-141	S	%Rec	10	6/1/2022 12:24:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/28/2022 4:43:44 AM
Surr: BFB	93.4	37.7-212		%Rec	1	5/28/2022 4:43:44 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	5/28/2022 4:43:44 AM
Toluene	ND	0.047		mg/Kg	1	5/28/2022 4:43:44 AM
Ethylbenzene	ND	0.047		mg/Kg	1	5/28/2022 4:43:44 AM
Xylenes, Total	ND	0.094		mg/Kg	1	5/28/2022 4:43:44 AM
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	5/28/2022 4:43:44 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	5500	150		mg/Kg	50	6/2/2022 12:31:27 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-03 2'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 8:55:00 AM

 Lab ID:
 2205B74-006
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF		Analyst: ED			
Diesel Range Organics (DRO)	240	9.6	mg/Kg	1	6/1/2022 1:12:26 PM
Motor Oil Range Organics (MRO)	140	48	mg/Kg	1	6/1/2022 1:12:26 PM
Surr: DNOP	93.2	51.1-141	%Rec	1	6/1/2022 1:12:26 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/28/2022 5:30:59 AM
Surr: BFB	96.0	37.7-212	%Rec	1	5/28/2022 5:30:59 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	5/28/2022 5:30:59 AM
Toluene	ND	0.049	mg/Kg	1	5/28/2022 5:30:59 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/28/2022 5:30:59 AM
Xylenes, Total	ND	0.099	mg/Kg	1	5/28/2022 5:30:59 AM
Surr: 4-Bromofluorobenzene	98.5	70-130	%Rec	1	5/28/2022 5:30:59 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	3700	150	mg/Kg	50	6/2/2022 1:08:39 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-04 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 9:00:00 AM

 Lab ID:
 2205B74-007
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: ED
Diesel Range Organics (DRO)	12	9.0	mg/Kg	1	5/31/2022 6:11:58 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	5/31/2022 6:11:58 PM
Surr: DNOP	75.3	51.1-141	%Rec	1	5/31/2022 6:11:58 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/28/2022 5:54:36 AM
Surr: BFB	99.6	37.7-212	%Rec	1	5/28/2022 5:54:36 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/28/2022 5:54:36 AM
Toluene	ND	0.048	mg/Kg	1	5/28/2022 5:54:36 AM
Ethylbenzene	ND	0.048	mg/Kg	1	5/28/2022 5:54:36 AM
Xylenes, Total	ND	0.097	mg/Kg	1	5/28/2022 5:54:36 AM
Surr: 4-Bromofluorobenzene	95.7	70-130	%Rec	1	5/28/2022 5:54:36 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	98	60	mg/Kg	20	6/2/2022 12:38:51 AM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-05 0'

Project: Onyx 29 CTB1
 Collection Date: 5/24/2022 9:10:00 AM

 Lab ID: 2205B74-008
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: ED
Diesel Range Organics (DRO)	29	9.4	mg/Kg	1	5/31/2022 6:36:29 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/31/2022 6:36:29 PM
Surr: DNOP	78.6	51.1-141	%Rec	1	5/31/2022 6:36:29 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/28/2022 6:18:19 AM
Surr: BFB	93.9	37.7-212	%Rec	1	5/28/2022 6:18:19 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	5/28/2022 6:18:19 AM
Toluene	ND	0.046	mg/Kg	1	5/28/2022 6:18:19 AM
Ethylbenzene	ND	0.046	mg/Kg	1	5/28/2022 6:18:19 AM
Xylenes, Total	ND	0.092	mg/Kg	1	5/28/2022 6:18:19 AM
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	1	5/28/2022 6:18:19 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	73	60	mg/Kg	20	6/2/2022 12:51:17 AM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-06 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 9:15:00 AM

 Lab ID:
 2205B74-009
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: ED
Diesel Range Organics (DRO)	17	10	mg/Kg	1	5/31/2022 7:00:53 PM
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	5/31/2022 7:00:53 PM
Surr: DNOP	71.5	51.1-141	%Rec	1	5/31/2022 7:00:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/28/2022 6:41:58 AM
Surr: BFB	94.5	37.7-212	%Rec	1	5/28/2022 6:41:58 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	5/28/2022 6:41:58 AM
Toluene	ND	0.047	mg/Kg	1	5/28/2022 6:41:58 AM
Ethylbenzene	ND	0.047	mg/Kg	1	5/28/2022 6:41:58 AM
Xylenes, Total	ND	0.093	mg/Kg	1	5/28/2022 6:41:58 AM
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	5/28/2022 6:41:58 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	5000	150	mg/Kg	50	6/2/2022 1:21:03 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-06 2'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 9:20:00 AM

 Lab ID:
 2205B74-010
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	5/31/2022 7:25:13 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/31/2022 7:25:13 PM
Surr: DNOP	69.8	51.1-141	%Rec	1	5/31/2022 7:25:13 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/28/2022 7:05:38 AM
Surr: BFB	91.8	37.7-212	%Rec	1	5/28/2022 7:05:38 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	5/28/2022 7:05:38 AM
Toluene	ND	0.049	mg/Kg	1	5/28/2022 7:05:38 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/28/2022 7:05:38 AM
Xylenes, Total	ND	0.097	mg/Kg	1	5/28/2022 7:05:38 AM
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	5/28/2022 7:05:38 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	4500	150	mg/Kg	50	6/2/2022 1:33:28 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-06 6'

Project: Onyx 29 CTB1
 Collection Date: 5/24/2022 1:45:00 PM

 Lab ID: 2205B74-011
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/31/2022 7:49:27 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/31/2022 7:49:27 PM
Surr: DNOP	71.5	51.1-141	%Rec	1	5/31/2022 7:49:27 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/28/2022 7:29:19 AM
Surr: BFB	92.6	37.7-212	%Rec	1	5/28/2022 7:29:19 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	5/28/2022 7:29:19 AM
Toluene	ND	0.046	mg/Kg	1	5/28/2022 7:29:19 AM
Ethylbenzene	ND	0.046	mg/Kg	1	5/28/2022 7:29:19 AM
Xylenes, Total	ND	0.092	mg/Kg	1	5/28/2022 7:29:19 AM
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	5/28/2022 7:29:19 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	120	60	mg/Kg	20	6/2/2022 1:28:30 AM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-07 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 10:20:00 AM

 Lab ID:
 2205B74-012
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/27/2022 1:09:32 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/27/2022 1:09:32 PM
Surr: DNOP	78.1	51.1-141	%Rec	1	5/27/2022 1:09:32 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	100	60	mg/Kg	20	6/2/2022 1:40:54 AM
EPA METHOD 8260B: VOLATILES SHORT LIS	т				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	5/27/2022 1:54:40 PM
Toluene	ND	0.050	mg/Kg	1	5/27/2022 1:54:40 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/27/2022 1:54:40 PM
Xylenes, Total	ND	0.10	mg/Kg	1	5/27/2022 1:54:40 PM
Surr: 1,2-Dichloroethane-d4	97.6	70-130	%Rec	1	5/27/2022 1:54:40 PM
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	5/27/2022 1:54:40 PM
Surr: Dibromofluoromethane	111	70-130	%Rec	1	5/27/2022 1:54:40 PM
Surr: Toluene-d8	99.1	70-130	%Rec	1	5/27/2022 1:54:40 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/27/2022 1:54:40 PM
Surr: BFB	107	70-130	%Rec	1	5/27/2022 1:54:40 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-08 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 9:25:00 AM

 Lab ID:
 2205B74-013
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst: SB
Diesel Range Organics (DRO)	7100	94		mg/Kg	10	5/27/2022 7:21:06 PM
Motor Oil Range Organics (MRO)	4700	470		mg/Kg	10	5/27/2022 7:21:06 PM
Surr: DNOP	0	51.1-141	S	%Rec	10	5/27/2022 7:21:06 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1300	61		mg/Kg	20	6/2/2022 2:18:07 AM
EPA METHOD 8260B: VOLATILES SHORT LIST	•					Analyst: JR
Benzene	ND	0.024		mg/Kg	1	5/27/2022 3:20:57 PM
Toluene	ND	0.048		mg/Kg	1	5/27/2022 3:20:57 PM
Ethylbenzene	ND	0.048		mg/Kg	1	5/27/2022 3:20:57 PM
Xylenes, Total	ND	0.095		mg/Kg	1	5/27/2022 3:20:57 PM
Surr: 1,2-Dichloroethane-d4	97.7	70-130		%Rec	1	5/27/2022 3:20:57 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	5/27/2022 3:20:57 PM
Surr: Dibromofluoromethane	114	70-130		%Rec	1	5/27/2022 3:20:57 PM
Surr: Toluene-d8	98.1	70-130		%Rec	1	5/27/2022 3:20:57 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/27/2022 3:20:57 PM
Surr: BFB	109	70-130		%Rec	1	5/27/2022 3:20:57 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-08 2'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 9:30:00 AM

 Lab ID:
 2205B74-014
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	76	10	mg/Kg	1	5/27/2022 1:33:59 PM
Motor Oil Range Organics (MRO)	72	50	mg/Kg	1	5/27/2022 1:33:59 PM
Surr: DNOP	98.3	51.1-141	%Rec	1	5/27/2022 1:33:59 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	4700	150	mg/Kg	50	6/2/2022 1:45:52 PM
EPA METHOD 8260B: VOLATILES SHOR	RT LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 4:47:23 PM
Toluene	ND	0.048	mg/Kg	1	5/27/2022 4:47:23 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/27/2022 4:47:23 PM
Xylenes, Total	ND	0.096	mg/Kg	1	5/27/2022 4:47:23 PM
Surr: 1,2-Dichloroethane-d4	106	70-130	%Rec	1	5/27/2022 4:47:23 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/27/2022 4:47:23 PM
Surr: Dibromofluoromethane	119	70-130	%Rec	1	5/27/2022 4:47:23 PM
Surr: Toluene-d8	96.9	70-130	%Rec	1	5/27/2022 4:47:23 PM
EPA METHOD 8015D MOD: GASOLINE F	RANGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/27/2022 4:47:23 PM
Surr: BFB	107	70-130	%Rec	1	5/27/2022 4:47:23 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-08 5'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 1:40:00 PM

 Lab ID:
 2205B74-015
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	120	9.4	mg/Kg	1	5/27/2022 1:58:24 PM
Motor Oil Range Organics (MRO)	120	47	mg/Kg	1	5/27/2022 1:58:24 PM
Surr: DNOP	104	51.1-141	%Rec	1	5/27/2022 1:58:24 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	720	60	mg/Kg	20	6/2/2022 2:42:57 AM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	5/27/2022 5:16:12 PM
Toluene	ND	0.050	mg/Kg	1	5/27/2022 5:16:12 PM
Ethylbenzene	ND	0.050	mg/Kg	1	5/27/2022 5:16:12 PM
Xylenes, Total	ND	0.099	mg/Kg	1	5/27/2022 5:16:12 PM
Surr: 1,2-Dichloroethane-d4	103	70-130	%Rec	1	5/27/2022 5:16:12 PM
Surr: 4-Bromofluorobenzene	97.9	70-130	%Rec	1	5/27/2022 5:16:12 PM
Surr: Dibromofluoromethane	122	70-130	%Rec	1	5/27/2022 5:16:12 PM
Surr: Toluene-d8	96.8	70-130	%Rec	1	5/27/2022 5:16:12 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/27/2022 5:16:12 PM
Surr: BFB	108	70-130	%Rec	1	5/27/2022 5:16:12 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-09 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 9:35:00 AM

 Lab ID:
 2205B74-016
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	16	9.3	mg/Kg	1	5/31/2022 12:32:21 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/31/2022 12:32:21 PM
Surr: DNOP	82.5	51.1-141	%Rec	1	5/31/2022 12:32:21 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	370	60	mg/Kg	20	6/2/2022 2:55:22 AM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 5:45:01 PM
Toluene	ND	0.049	mg/Kg	1	5/27/2022 5:45:01 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 5:45:01 PM
Xylenes, Total	ND	0.098	mg/Kg	1	5/27/2022 5:45:01 PM
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	5/27/2022 5:45:01 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	5/27/2022 5:45:01 PM
Surr: Dibromofluoromethane	116	70-130	%Rec	1	5/27/2022 5:45:01 PM
Surr: Toluene-d8	98.6	70-130	%Rec	1	5/27/2022 5:45:01 PM
EPA METHOD 8015D MOD: GASOLINE RANG	Ε				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 5:45:01 PM
Surr: BFB	109	70-130	%Rec	1	5/27/2022 5:45:01 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-10 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 9:45:00 AM

 Lab ID:
 2205B74-017
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	390	9.7	mg/Kg	1	5/27/2022 2:22:47 PM
Motor Oil Range Organics (MRO)	370	48	mg/Kg	1	5/27/2022 2:22:47 PM
Surr: DNOP	104	51.1-141	%Rec	1	5/27/2022 2:22:47 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	20000	1500	mg/Kg	500	6/2/2022 1:58:16 PM
EPA METHOD 8260B: VOLATILES SHOP	RT LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 6:13:46 PM
Toluene	ND	0.049	mg/Kg	1	5/27/2022 6:13:46 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 6:13:46 PM
Xylenes, Total	ND	0.098	mg/Kg	1	5/27/2022 6:13:46 PM
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	5/27/2022 6:13:46 PM
Surr: 4-Bromofluorobenzene	96.7	70-130	%Rec	1	5/27/2022 6:13:46 PM
Surr: Dibromofluoromethane	115	70-130	%Rec	1	5/27/2022 6:13:46 PM
Surr: Toluene-d8	97.1	70-130	%Rec	1	5/27/2022 6:13:46 PM
EPA METHOD 8015D MOD: GASOLINE F	RANGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 6:13:46 PM
Surr: BFB	107	70-130	%Rec	1	5/27/2022 6:13:46 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-10 2'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 9:50:00 AM

 Lab ID:
 2205B74-018
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: ED
Diesel Range Organics (DRO)	49	10	mg/Kg	1	5/31/2022 8:37:47 PM
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	5/31/2022 8:37:47 PM
Surr: DNOP	71.7	51.1-141	%Rec	1	5/31/2022 8:37:47 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	7200	300	mg/Kg	100	6/2/2022 2:10:40 PM
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 6:42:26 PM
Toluene	ND	0.048	mg/Kg	1	5/27/2022 6:42:26 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/27/2022 6:42:26 PM
Xylenes, Total	ND	0.097	mg/Kg	1	5/27/2022 6:42:26 PM
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	5/27/2022 6:42:26 PM
Surr: 4-Bromofluorobenzene	98.9	70-130	%Rec	1	5/27/2022 6:42:26 PM
Surr: Dibromofluoromethane	116	70-130	%Rec	1	5/27/2022 6:42:26 PM
Surr: Toluene-d8	98.6	70-130	%Rec	1	5/27/2022 6:42:26 PM
EPA METHOD 8015D MOD: GASOLINE R.	ANGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/27/2022 6:42:26 PM
Surr: BFB	109	70-130	%Rec	1	5/27/2022 6:42:26 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-10 3'

Project: Onyx 29 CTB1
 Collection Date: 5/24/2022 1:10:00 PM

 Lab ID: 2205B74-019
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/27/2022 3:11:44 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/27/2022 3:11:44 PM
Surr: DNOP	58.5	51.1-141	%Rec	1	5/27/2022 3:11:44 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	430	60	mg/Kg	20	6/2/2022 3:32:36 AM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 7:11:06 PM
Toluene	ND	0.047	mg/Kg	1	5/27/2022 7:11:06 PM
Ethylbenzene	ND	0.047	mg/Kg	1	5/27/2022 7:11:06 PM
Xylenes, Total	ND	0.094	mg/Kg	1	5/27/2022 7:11:06 PM
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	5/27/2022 7:11:06 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/27/2022 7:11:06 PM
Surr: Dibromofluoromethane	115	70-130	%Rec	1	5/27/2022 7:11:06 PM
Surr: Toluene-d8	99.5	70-130	%Rec	1	5/27/2022 7:11:06 PM
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/27/2022 7:11:06 PM
Surr: BFB	109	70-130	%Rec	1	5/27/2022 7:11:06 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-11 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 9:55:00 AM

 Lab ID:
 2205B74-020
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/27/2022 3:36:12 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/27/2022 3:36:12 PM
Surr: DNOP	51.5	51.1-141	%Rec	1	5/27/2022 3:36:12 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	230	60	mg/Kg	20	6/1/2022 5:14:13 PM
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 7:39:44 PM
Toluene	ND	0.048	mg/Kg	1	5/27/2022 7:39:44 PM
Ethylbenzene	ND	0.048	mg/Kg	1	5/27/2022 7:39:44 PM
Xylenes, Total	ND	0.097	mg/Kg	1	5/27/2022 7:39:44 PM
Surr: 1,2-Dichloroethane-d4	96.3	70-130	%Rec	1	5/27/2022 7:39:44 PM
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	5/27/2022 7:39:44 PM
Surr: Dibromofluoromethane	114	70-130	%Rec	1	5/27/2022 7:39:44 PM
Surr: Toluene-d8	100	70-130	%Rec	1	5/27/2022 7:39:44 PM
EPA METHOD 8015D MOD: GASOLINE RAN	IGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/27/2022 7:39:44 PM
Surr: BFB	108	70-130	%Rec	1	5/27/2022 7:39:44 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-12 0'

 Project:
 Onyx 29 CTB1
 Collection Date: 5/24/2022 10:05:00 AM

 Lab ID:
 2205B74-021
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/27/2022 4:00:38 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	5/27/2022 4:00:38 PM
Surr: DNOP	59.9	51.1-141	%Rec	1	5/27/2022 4:00:38 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	17000	600	mg/Kg	200	6/2/2022 10:39:49 AM
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	5/27/2022 8:08:26 PM
Toluene	ND	0.049	mg/Kg	1	5/27/2022 8:08:26 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 8:08:26 PM
Xylenes, Total	ND	0.099	mg/Kg	1	5/27/2022 8:08:26 PM
Surr: 1,2-Dichloroethane-d4	105	70-130	%Rec	1	5/27/2022 8:08:26 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/27/2022 8:08:26 PM
Surr: Dibromofluoromethane	113	70-130	%Rec	1	5/27/2022 8:08:26 PM
Surr: Toluene-d8	101	70-130	%Rec	1	5/27/2022 8:08:26 PM
EPA METHOD 8015D MOD: GASOLINE RAN	GE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 8:08:26 PM
Surr: BFB	113	70-130	%Rec	1	5/27/2022 8:08:26 PM

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

Qualifiers:

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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-12 2'

Project: Onyx 29 CTB1
 Collection Date: 5/24/2022 10:10:00 AM

 Lab ID: 2205B74-022
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/31/2022 9:01:57 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	5/31/2022 9:01:57 PM
Surr: DNOP	58.7	51.1-141	%Rec	1	5/31/2022 9:01:57 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	230	60	mg/Kg	20	6/1/2022 6:03:37 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.025	mg/Kg	1	5/27/2022 8:37:02 PM
Toluene	ND	0.049	mg/Kg	1	5/27/2022 8:37:02 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 8:37:02 PM
Xylenes, Total	ND	0.099	mg/Kg	1	5/27/2022 8:37:02 PM
Surr: 1,2-Dichloroethane-d4	104	70-130	%Rec	1	5/27/2022 8:37:02 PM
Surr: 4-Bromofluorobenzene	98.0	70-130	%Rec	1	5/27/2022 8:37:02 PM
Surr: Dibromofluoromethane	114	70-130	%Rec	1	5/27/2022 8:37:02 PM
Surr: Toluene-d8	100	70-130	%Rec	1	5/27/2022 8:37:02 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 8:37:02 PM
Surr: BFB	107	70-130	%Rec	1	5/27/2022 8:37:02 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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

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Date Reported: 6/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-03 5'

Project: Onyx 29 CTB1
 Collection Date: 5/24/2022 1:35:00 PM

 Lab ID: 2205B74-023
 Matrix: SOIL
 Received Date: 5/26/2022 7:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	480	9.9	mg/Kg	1	5/27/2022 4:49:38 PM
Motor Oil Range Organics (MRO)	460	49	mg/Kg	1	5/27/2022 4:49:38 PM
Surr: DNOP	113	51.1-141	%Rec	1	5/27/2022 4:49:38 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	640	60	mg/Kg	20	6/1/2022 6:15:57 PM
EPA METHOD 8260B: VOLATILES SHORT LI	IST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	5/27/2022 9:05:34 PM
Toluene	ND	0.049	mg/Kg	1	5/27/2022 9:05:34 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/27/2022 9:05:34 PM
Xylenes, Total	ND	0.098	mg/Kg	1	5/27/2022 9:05:34 PM
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	5/27/2022 9:05:34 PM
Surr: 4-Bromofluorobenzene	95.1	70-130	%Rec	1	5/27/2022 9:05:34 PM
Surr: Dibromofluoromethane	111	70-130	%Rec	1	5/27/2022 9:05:34 PM
Surr: Toluene-d8	97.1	70-130	%Rec	1	5/27/2022 9:05:34 PM
EPA METHOD 8015D MOD: GASOLINE RANG	GE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/27/2022 9:05:34 PM
Surr: BFB	105	70-130	%Rec	1	5/27/2022 9:05:34 PM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

08-Jun-22

2205B74

WO#:

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1

Sample ID: MB-67840 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **67840** RunNo: **88422**

Prep Date: 6/1/2022 Analysis Date: 6/1/2022 SeqNo: 3137024 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-67840 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67840 RunNo: 88422

Prep Date: 6/1/2022 Analysis Date: 6/1/2022 SeqNo: 3137025 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.6 90 110

Sample ID: MB-67832 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 67832 RunNo: 88432

Prep Date: 6/1/2022 Analysis Date: 6/1/2022 SeqNo: 3137379 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-67832 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67832 RunNo: 88432

Prep Date: 6/1/2022 Analysis Date: 6/1/2022 SeqNo: 3137380 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.2 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2205B74** *08-Jun-22*

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1

Sample ID: LCS-67737	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batc	h ID: 67	737	F	RunNo: 8	8332				
Prep Date: 5/26/2022	Analysis [Date: 5 /	/27/2022	5	SeqNo: 3	132996	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.3	64.4	127			
Surr: DNOP	4.1		5.000		81.2	51.1	141			
Sample ID: MB-67737	Samp	Гуре: МІ	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Bato	h ID: 67	737	RunNo: 88332						
Prep Date: 5/26/2022	Analysis [Date: 5 /	/27/2022	5	SeqNo: 3	132997	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.1	51.1	141			
Sample ID: 2205B74-012AM	I SD Samp	Гуре: М	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: BH22-07 0'	Batc	h ID: 67	737	F	RunNo: 8	8332				
Prep Date: 5/26/2022	Analysis [Date: 5 /	/27/2022	5	SeqNo: 3	134548	Units: mg/h	(g		
	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte	Result									
Analyte Diesel Range Organics (DRO)	39	9.5	47.66	0	82.1	36.1	154	11.6	33.9	

Sample ID: MB-67765	SampType: MBLK TestCode: EPA Method 8						8015M/D: Diesel Range Organics				
Client ID: PBS	Batch	ID: 67	765	RunNo: 88381							
Prep Date: 5/27/2022	Analysis D	ate: 5/	31/2022	SeqNo: 3135345			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	6.8		10.00		68.2	51.1	141				

Sample ID: 2205B74-012AMS	SampT	ype: MS	3	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH22-07 0'	Batch	ID: 67	737	RunNo: 88381						
Prep Date: 5/26/2022	Analysis D	ate: 5/	31/2022	SeqNo: 3135370 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	36.1	154			
Surr: DNOP	3.4		5.000		67.5	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 Quanitative Limit
- 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2205B74**

08-Jun-22

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1

Project: Onyx 29	9 CTB1		
Sample ID: 2205B74-012AM	SD SampType: MSD	TestCode: EPA Method	l 8015M/D: Diesel Range Organics
Client ID: BH22-07 0'	Batch ID: 67737	RunNo: 88381	
Prep Date: 5/26/2022	Analysis Date: 5/31/2022	SeqNo: 3135371	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	50 9.5 47.66	0 104 36.1	154 8.29 33.9
Surr: DNOP	2.7 4.766	57.2 51.1	141 0 0
Sample ID: LCS-67765	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 67765	RunNo: 88381	
Prep Date: 5/27/2022	Analysis Date: 5/31/2022	SeqNo: 3135454	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	46 10 50.00	0 92.9 64.4	127
Surr: DNOP	2.7 5.000	53.2 51.1	141
Sample ID: MB-67821	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 67821	RunNo: 88418	
Prep Date: 6/1/2022	Analysis Date: 6/3/2022	SeqNo: 3138396	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.0 10.00	90.0 51.1	141
Sample ID: LCS-67821	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 67821	RunNo: 88418	
Prep Date: 6/1/2022	Analysis Date: 6/3/2022	SeqNo: 3138397	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	3.8 5.000	76.1 51.1	141
Sample ID: MB-67871	SampType: MBLK	TestCode: EPA Method	l 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 67871	RunNo: 88418	
Prep Date: 6/2/2022	Analysis Date: 6/4/2022	SeqNo: 3140066	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.7 10.00	96.6 51.1	141
Sample ID: LCS-67871	SampType: LCS	TestCode: EPA Method	l 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 67871	RunNo: 88418	
		•	Unite: 8/ Dee
Prep Date: 6/2/2022	Analysis Date: 6/4/2022	SeqNo: 3140074	Units: %Rec
Prep Date: 6/2/2022 Analyte		SeqNo: 3140074 SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2205B74**

08-Jun-22

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1

Sample ID: mb-67730 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 67730 RunNo: 88348

Prep Date: 5/26/2022 Analysis Date: 5/27/2022 SeqNo: 3133399 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 99.9 37.7 212

Sample ID: Ics-67730 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 67730 RunNo: 88348

Prep Date: 5/26/2022 Analysis Date: 5/27/2022 SeqNo: 3133400 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 72.3 Gasoline Range Organics (GRO) 29 5.0 25.00 0 116 137 Surr: BFB 2200 1000 219 37.7 S 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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2205B74 08-Jun-22

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1

Sample ID: mb-67730 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 67730 RunNo: 88348

Prep Date: 5/26/2022 Analysis Date: 5/27/2022 SeqNo: 3133452 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result Benzene ND 0.025

Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10

70 Surr: 4-Bromofluorobenzene 1.0 1.000 103 130

Sample ID: LCS-67730 SampType: LCS TestCode: EPA Method 8021B: Volatiles Batch ID: 67730 Client ID: LCSS

Analysis Date: 5/27/2022 SagNo: 3133453 Drop Doto: Linita: marilia

Prep Date: 5/26/2022	Analysis L	Date: 5/	27/2022	3	seqivo: 3	133453	Units: mg/K	.g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.6	80	120			
Toluene	0.97	0.050	1.000	0	97.5	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.3	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

RunNo: 88348

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2205B74** *08-Jun-22*

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1

Sample ID: 2205b74-013ams	SampT	ype: MS	64	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	
Client ID: BH22-08 0'	Batch	n ID: 67 7	732	F	RunNo: 8	8359				
Prep Date: 5/26/2022	Analysis D	Date: 5/ 2	27/2022	9	SeqNo: 3	134178	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9515	0	96.3	63.5	137			
Toluene	1.0	0.048	0.9515	0	106	77.6	127			
Ethylbenzene	1.0	0.048	0.9515	0	106	77.9	129			
Xylenes, Total	3.1	0.095	2.854	0	108	76.8	127			
Surr: 1,2-Dichloroethane-d4	0.47		0.4757		98.2	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.4757		99.5	70	130			
Surr: Dibromofluoromethane	0.53		0.4757		111	70	130			
Surr: Toluene-d8	0.47		0.4757		98.9	70	130			

Sample ID: 2205b74-013ams	sd Samp	Гуре: М	SD4	Tes	tCode: El	PA Method	8260B: Volat	tiles Short	List	
Client ID: BH22-08 0'	Batc	h ID: 67	732	F	RunNo: 8	8359				
Prep Date: 5/26/2022	Analysis [Date: 5/	27/2022	9	SeqNo: 3	134179	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.024	0.9606	0	97.2	63.5	137	1.88	20	
Toluene	0.99	0.048	0.9606	0	103	77.6	127	1.50	20	
Ethylbenzene	1.0	0.048	0.9606	0	104	77.9	129	0.867	20	
Xylenes, Total	3.0	0.096	2.882	0	104	76.8	127	3.53	20	
Surr: 1,2-Dichloroethane-d4	0.51		0.4803		106	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.48		0.4803		99.3	70	130	0	0	
Surr: Dibromofluoromethane	0.56		0.4803		117	70	130	0	0	
Surr: Toluene-d8	0.48		0.4803		99.4	70	130	0	0	

Sample ID: Ics-67732	Samp ⁻	Гуре: LC	S4	Tes	tCode: El	PA Method	8260B: Vola	tiles Short	List	
Client ID: BatchQC	Batc	h ID: 67	732	F	RunNo: 8	8359				
Prep Date: 5/26/2022	Analysis [Date: 5/	27/2022	S	SeqNo: 3	134190	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.4	80	120			
Toluene	0.99	0.050	1.000	0	99.0	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		104	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.0	70	130			
Surr: Dibromofluoromethane	0.58		0.5000		116	70	130			
Surr: Toluene-d8	0.49		0.5000		97.8	70	130			

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 29 of 31

Hall Environmental Analysis Laboratory, Inc.

WO#: **2205B74** *08-Jun-22*

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1

Sample ID: mb-67732 Client ID: PBS	•	Type: ME h ID: 67 7			tCode: El RunNo: 8		8260B: Volat	tiles Short	List	
Prep Date: 5/26/2022	Analysis D				SeqNo: 3		Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		99.6	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.57		0.5000		113	70	130			
Surr: Toluene-d8	0.50		0.5000		99.5	70	130			

Qualifiers:

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

Page 30 of 31

Hall Environmental Analysis Laboratory, Inc.

08-Jun-22

2205B74

WO#:

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1

Sample ID: 2205b74-012ams SampType: MS TestCode: EPA Method 8015D Mod: Gasoline Range BH22-07 0' RunNo: 88359 Client ID: Batch ID: 67732 Prep Date: 5/26/2022 Analysis Date: 5/27/2022 SeqNo: 3134153 Units: mq/Kq PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Gasoline Range Organics (GRO) 25 4.9 24.53 Λ 103 61.1 127 Surr: BFB 490 490.7 101 130

Sample ID: 2205b74-012amsd TestCode: EPA Method 8015D Mod: Gasoline Range SampType: MSD Client ID: BH22-07 0' Batch ID: 67732 RunNo: 88359 Prep Date: Analysis Date: 5/27/2022 SeqNo: 3134154 5/26/2022 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 4.9 24.32 O 98.2 61.1 127 5.80 20 Surr: BFB 500 486.4 103 70 130 0 0

Sample ID: Ics-67732 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: LCSS Batch ID: 67732 RunNo: 88359 Prep Date: 5/26/2022 Analysis Date: 5/27/2022 SeqNo: 3134174 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Gasoline Range Organics (GRO) 23 5.0 25.00 0 93.4 70 130 Surr: BFB 520 500.0 105 70 130

SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range Sample ID: mb-67732 Client ID: PBS Batch ID: 67732 RunNo: 88359 Prep Date: 5/26/2022 Analysis Date: 5/27/2022 SeqNo: 3134175 Units: mg/Kg SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 550 500.0 111 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

Page 31 of 31



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 Res Services, I		Work	Order Num	ber: 220	5B74			RcptNo: 1
Received By:	Tracy Ca	sarrubias	5/26/20	022 7:00:00	AM				
Completed By:	Tracy Ca		5/26/20	22 8:24:57	AM				
Reviewed By:	1	76-22	O/LO/LO	,22 0.24.51	CIVI				
Neviewed By.	, -	Co							
01 1 10	72.5 C100								
Chain of Cus		112					1.5		
1. Is Chain of C					Yes	V	No	Ш	Not Present
2. How was the	sample deliv	vered?			Cou	rier			
Log In									
3. Was an atten	npt made to	cool the same	oles?		Yes	V	No		NA 🗆
					100		3,00		W. 2
4. Were all sam	ples received	d at a tempera	ature of >0° C	to 6.0°C	Ves	V	No		NA 🗆
) 201 30 32 13 1 24 4			103	12.			No. L.
5. Sample(s) in	proper conta	iner(s)?			Yes	~	No		
		e distant						_	
6. Sufficient sam					Yes	V	No		
7. Are samples (operly preserve	ed?	Yes	V	No		
8. Was preserva	tive added to	bottles?			Yes		No	V	NA 🗆
9. Received at le	act 1 vial wil	h haadanaa	<1/4" for AO 1	1040	Mass	П	KI L	П	NA 🗹
				/UA?	Yes		No		NA 🛂
10. Were any sar	npie contain	ers received t	oroken?		Yes	Ц	No	V	# of preserved
11. Does paperwo	ork match bo	ttle lahels?			Yes		No	П	bottles checked for pH:
(Note discrepa			()		162	(<u>v</u>)	140	ш	(<2 or >12 unless noted)
12. Are matrices of	correctly iden	tified on Chai	in of Custody?		Yes	V	No		Adjusted?
13. Is it clear wha	t analyses w	ere requested	1?		Yes	V	No		
14. Were all holdi					Yes	V	No		Checked by: 54 5/26/70
(If no, notify or	ustomer for a	authorization.)							/
Special Handl	ing (if app	olicable)							
15. Was client no	tified of all d	iscrepancies	with this order	2	Yes	П	No		NA 🗹
		1021.31	200000000000000000000000000000000000000				140		NA EL
	Notified:			Date					2000
By Who				Via:	☐ eM	ail 📋	Phone _] Fax	☐ In Person
Regard	nstructions:								
		1							
16. Additional re	marks:								
17. Cooler Infor	mation								
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal D	ate	Signed	Ву	
1	0.5	Good	Yes						
3	3.7 1.6	Good	Yes						
Project Control of the Control of th		Good	Yes						
4	2.4	Good	Yes						

Client:	Ver	lertex	i Vertex	□ Standard □	d 🖂 Rush	d'Rush Shaw		П	HA	HALL ENVI	N	HALL ENVIRONMENTAL	ENTAL
	(COCOCCASA	CHOROLOGICA	(Devon)	Project Name:					WANAN	, hallen			
Mailing	Mailing Address:		1	Onyx	29 CTB		94	4901 Hawkins NF	wkins N	,	A PINCIPLE	Albuquerane NM 87109	g
	0	m Kil	le	Project #:				Tel. 505	505-345-3975		Fax 50	505-345-4107	2
Phone #:	#:	0		22t	-01720	0				Ana	100	Rednest	
email	email or Fax#:			Project Manager:	ager:			_		†O		(tr	
QA/QC Packa	QA/QC Package:		☐ Level 4 (Full Validation)		Movica Peppin		's (802° SM \ O	0.00 - 150	SWISC	PO4, S		ıəsdA\tı	
Accreditation:	itation: AC	☐ Az Cor☐ Other	☐ Az Compliance ☐ Other	Sampler: C	Dixon,	S Cauthar		Z808/	1 1 1 1 1				
□ EDD (Ty	EDD (Type)			# of Coolers:	家工	2		səpi		_			
				Cooler Temp(including cF):	:: (2)	ge Crucklist (°C)		oite			(AO		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	77.052 74	BTEX)	9 1808	EDB (M	ЯСКА 8 С∂, F, В	v) 0928	S) 07S8	
EDITION			CONTROCTORY			U						-	
5/24	8:30	Soil	BH22-01 C	0' 1 40x lar	ice	100	>			>			
-	8:40		BH22-02 (8-10		700	_			-			
	8:45		BH22-02	2:		(no)							
	1.15		0.7	4,		P00							
	8:50		BH 22 - 03	,0		0/18							
	8:55		BH122-03	2,		500							
	00:10		BH 22-04	0,		~00							
	9:10		BH22-05	, '0		890							
	9:15		BH22-06	0,		500							
	9:20		BH22-06	2.		010				-			
	1:45		BH122-06	- 0.		011				-			
Date: 5/24	Time: 5:20	Relinquished by: Sculley	led by:	Received by: Vi	Via:	Shelps (Ime	Remarks:	arks: Woy K	20	order	2	2095610	05
Date:	Date: Time:	Relinquished by:	elinquished by:	Received by:	Varian	100	5.	olirect bill	2		Devon		

Client:	Vertex) 3	t: Vartex (Deviou)	3	Standard	Hand The	S. Jan.			HAI		N	IROL	HALL ENVIRONMENTA	_
	-				Project Name:		11			NA			LAB	ANALYSIS LABORATORY	=
Mailing	Mailing Address:	16			OWAX	29 CRB	_	490	www.h	www	≡ a	vironm	www.hallenvironmental.com	n 87400	
	NO	A Kill	7.		Project #:			1000	I FOF	FOE 3/15 207E		enhno	rque, iviv	87.109	
Phone #:					22E-(01720			-000	040-040	Anal	Analysis R	Reduest	107	
email	email or Fax#:					ager:		_			†C		(11		
QA/QC Packa	QA/QC Package: ☐ Standard		☐ Level 4 (Full Validation)	ation)	Monica	a Peppin			bcB,8	SMIS	PO4, S(nəsdA\t		
Accred	Accreditation:	□ Az Cc	☐ Az Compliance		Sampler: (DIXON,					' ^z ON				
	□ EDD (Tvpe)				# of Coolers: 7	Yes 7	ON 🗆			10 0					
	1.36.1				Cooler Temp	Cooler Temp(including CF): 510	Chicklich (°C)	T_ BTN		158	_	(A			
Date	Time	Matrix	Sample Name		Container Type and #	Preservative Type	,	\ <u>Х</u> ЭТВ	8081 Pes EDB (Me	γd sHΑ⊂	RCRA 8	OV) 0928	92) 0728 lo3 lsto1		
5/24	10:20	Soil	BH22-07	0'	1 403 Par	3	Oll				-	3			
	9:25	-	BH22-08	Ö	?-	-	J.(3)	-			-				
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	1:10		BH12-10	3,			610								
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	10:10		BH22-12	2,			110								
	1:35	-	BH22-03	5'		-	120				-				
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Date:	Time:	Relinquished by:	ed by:		Received by: Vie: C	Vie: Com) F		+	2.5		Devon			
8/98/8	200/00/00/00/00/00/00/00/00/00/00/00/00/	0 11.11	3	0		1	75.00 Tr.	2		5		>			



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

June 08, 2022

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

FAX:

RE: Onyx 29 CTB 1 OrderNo.: 2205C48

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 6 sample(s) on 5/27/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 6/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-13 0'

 Project:
 Onyx 29 CTB 1
 Collection Date: 5/25/2022 9:10:00 AM

 Lab ID:
 2205C48-001
 Matrix: SOIL
 Received Date: 5/27/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	31	9.6	mg/Kg	1	6/1/2022 2:59:50 PM
Motor Oil Range Organics (MRO)	52	48	mg/Kg	1	6/1/2022 2:59:50 PM
Surr: DNOP	89.5	51.1-141	%Rec	1	6/1/2022 2:59:50 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/30/2022 3:13:00 AM
Surr: BFB	82.9	37.7-212	%Rec	1	5/30/2022 3:13:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	5/30/2022 3:13:00 AM
Toluene	ND	0.049	mg/Kg	1	5/30/2022 3:13:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/30/2022 3:13:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	5/30/2022 3:13:00 AM
Surr: 4-Bromofluorobenzene	85.1	70-130	%Rec	1	5/30/2022 3:13:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	250	60	mg/Kg	20	6/2/2022 3:44:01 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 13

Date Reported: 6/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-13 2'

 Project:
 Onyx 29 CTB 1
 Collection Date: 5/25/2022 9:15:00 AM

 Lab ID:
 2205C48-002
 Matrix: SOIL
 Received Date: 5/27/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/1/2022 3:10:46 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/1/2022 3:10:46 PM
Surr: DNOP	90.3	51.1-141	%Rec	1	6/1/2022 3:10:46 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/30/2022 5:11:00 AM
Surr: BFB	87.3	37.7-212	%Rec	1	5/30/2022 5:11:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	5/30/2022 5:11:00 AM
Toluene	ND	0.049	mg/Kg	1	5/30/2022 5:11:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/30/2022 5:11:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	5/30/2022 5:11:00 AM
Surr: 4-Bromofluorobenzene	85.5	70-130	%Rec	1	5/30/2022 5:11:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	250	60	mg/Kg	20	6/2/2022 3:56:22 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 13

Date Reported: 6/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-14 0'

 Project:
 Onyx 29 CTB 1
 Collection Date: 5/25/2022 9:20:00 AM

 Lab ID:
 2205C48-003
 Matrix: SOIL
 Received Date: 5/27/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: ED
Diesel Range Organics (DRO)	23	9.2	mg/Kg	1	6/1/2022 11:41:18 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/1/2022 11:41:18 PM
Surr: DNOP	68.6	51.1-141	%Rec	1	6/1/2022 11:41:18 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/30/2022 5:31:00 AM
Surr: BFB	83.7	37.7-212	%Rec	1	5/30/2022 5:31:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	5/30/2022 5:31:00 AM
Toluene	ND	0.048	mg/Kg	1	5/30/2022 5:31:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	5/30/2022 5:31:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	5/30/2022 5:31:00 AM
Surr: 4-Bromofluorobenzene	84.2	70-130	%Rec	1	5/30/2022 5:31:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	70	60	mg/Kg	20	6/2/2022 4:08:43 AM

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

Qualifiers:

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

Page 3 of 13

Date Reported: 6/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-15 0'

 Project:
 Onyx 29 CTB 1
 Collection Date: 5/25/2022 9:30:00 AM

 Lab ID:
 2205C48-004
 Matrix: SOIL
 Received Date: 5/27/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	6/2/2022 9:57:17 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	6/2/2022 9:57:17 PM
Surr: DNOP	98.4	51.1-141	%Rec	1	6/2/2022 9:57:17 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/30/2022 6:30:00 AM
Surr: BFB	87.3	37.7-212	%Rec	1	5/30/2022 6:30:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	5/30/2022 6:30:00 AM
Toluene	ND	0.049	mg/Kg	1	5/30/2022 6:30:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/30/2022 6:30:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	5/30/2022 6:30:00 AM
Surr: 4-Bromofluorobenzene	89.1	70-130	%Rec	1	5/30/2022 6:30:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	120	60	mg/Kg	20	6/2/2022 4:45:44 AM

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

Qualifiers:

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

Page 4 of 13

Date Reported: 6/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-16 0'

 Project:
 Onyx 29 CTB 1
 Collection Date: 5/25/2022 9:40:00 AM

 Lab ID:
 2205C48-005
 Matrix: SOIL
 Received Date: 5/27/2022 7:10:00 AM

Analyses	Result	RL Qu	ial Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/2/2022 10:21:44 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/2/2022 10:21:44 PM
Surr: DNOP	91.8	51.1-141	%Rec	1	6/2/2022 10:21:44 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/30/2022 7:29:00 AM
Surr: BFB	88.2	37.7-212	%Rec	1	5/30/2022 7:29:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	5/30/2022 7:29:00 AM
Toluene	ND	0.049	mg/Kg	1	5/30/2022 7:29:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	5/30/2022 7:29:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	5/30/2022 7:29:00 AM
Surr: 4-Bromofluorobenzene	88.6	70-130	%Rec	1	5/30/2022 7:29:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	6/2/2022 4:58:06 AM

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

Qualifiers:

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

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Date Reported: 6/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-17 0'

 Project:
 Onyx 29 CTB 1
 Collection Date: 5/25/2022 9:50:00 AM

 Lab ID:
 2205C48-006
 Matrix: SOIL
 Received Date: 5/27/2022 7:10:00 AM

Analyses	Result	RL Qu	ial Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: ED
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/2/2022 10:46:19 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	6/2/2022 10:46:19 PM
Surr: DNOP	96.5	51.1-141	%Rec	1	6/2/2022 10:46:19 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/30/2022 7:49:00 AM
Surr: BFB	85.8	37.7-212	%Rec	1	5/30/2022 7:49:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	5/30/2022 7:49:00 AM
Toluene	ND	0.047	mg/Kg	1	5/30/2022 7:49:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	5/30/2022 7:49:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	5/30/2022 7:49:00 AM
Surr: 4-Bromofluorobenzene	86.6	70-130	%Rec	1	5/30/2022 7:49:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	6/2/2022 12:36:26 PM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2205C48**

08-Jun-22

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB 1

Sample ID: MB-67841 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **67841** RunNo: **88422**

Prep Date: 6/1/2022 Analysis Date: 6/1/2022 SeqNo: 3137026 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-67841 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67841 RunNo: 88422

Prep Date: 6/1/2022 Analysis Date: 6/1/2022 SeqNo: 3137027 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 92.3 90 110

Sample ID: MB-67859 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 67859 RunNo: 88449

Prep Date: 6/2/2022 Analysis Date: 6/2/2022 SeqNo: 3138016 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-67859 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 67859 RunNo: 88449

Prep Date: 6/2/2022 Analysis Date: 6/2/2022 SeqNo: 3138017 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.4 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

08-Jun-22

2205C48

WO#:

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB 1

Sample ID: LCS-67800	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics		
Client ID: LCSS	Batch	n ID: 67 8	800	F	RunNo: 88	8383					
Prep Date: 5/31/2022	Analysis D	ate: 6/	1/2022	S	SeqNo: 31	135520	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	51	10	50.00	0	102	64.4	127				
Surr: DNOP	4.0		5.000		79.2	51.1	141				
Sample ID: MB-67800	SampT	ype: ME	BLK	Tes	tCode: Ef	PA Method	8015M/D: Die	esel Rang	e Organics		
Client ID: PBS	Batch	n ID: 67 8	800	F	RunNo: 88	8383					
Prep Date: 5/31/2022	Analysis D	ate: 6/	1/2022	S	SeqNo: 31	135522	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	10		10.00		99.5	51.1	141				
Sample ID: MB-67801	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics		
Client ID: PBS	Batch	n ID: 67 8	801	F	RunNo: 88	8418					
Prep Date: 5/31/2022	Analysis D	ate: 6/	1/2022	S	SeqNo: 31	136937	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	6.7		10.00		67.1	51.1	141				
Sample ID: LCS-67801	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	esel Rang	e Organics		
Client ID: LCSS	Batch	n ID: 67 8	801	F	RunNo: 88	8418					
Prep Date: 5/31/2022	Analysis D	ate: 6/	2/2022	S	SeqNo: 31	137868	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	53	10	50.00	0	107	64.4	127	_		_	
Surr: DNOP	4.8		5.000		95.3	51.1	141				
Sample ID: 2205C48-003AMS	SampT	уре: М\$	<u> </u>	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics		
Client ID: BH22-14 0'	Batch	n ID: 67 8	801	F	RunNo: 88	8418					

Qualifiers:

Analyte

Surr: DNOP

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

Prep Date: 5/31/2022

Diesel Range Organics (DRO)

S % Recovery outside of range due to dilution or matrix interference

Analysis Date: 6/2/2022

PQL

9.7

Result

57

3.0

B Analyte detected in the associated Method Blank

SeqNo: 3138107

68.9

62.0

LowLimit

36.1

51.1

Units: mg/Kg

154

141

%RPD

RPDLimit

Qual

HighLimit

E Estimated value

SPK value SPK Ref Val %REC

23.39

48.36

4.836

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2205C48 08-Jun-22**

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB 1

Sample ID: 2205C48-003AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BH22-14 0' Batch ID: 67801 RunNo: 88418

Prep Date: 5/31/2022 Analysis Date: 6/2/2022 SeqNo: 3138108 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 10 23.39 76 49.80 106 36.1 154 29.4 33.9 Surr: DNOP 4.8 4.980 96.0 51.1 141 0

Sample ID: MB-67871 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 67871 RunNo: 88418

Prep Date: 6/2/2022 Analysis Date: 6/4/2022 SeqNo: 3140066 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 9.7 10.00 96.6 51.1 141

Sample ID: LCS-67871 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 67871 RunNo: 88418

Prep Date: 6/2/2022 Analysis Date: 6/4/2022 SeqNo: 3140074 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 4.9 5.000 98.0 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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2205C48**

08-Jun-22

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB 1

Sample ID: Ics-67761	SampTy	pe: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch I	D: 67	761	F	RunNo: 8	8358				
Prep Date: 5/27/2022	Analysis Da	te: 5/	29/2022	8	SeqNo: 3	134017	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.6	72.3	137			
Surr: BFB	1900		1000		186	37.7	212			
Sample ID: mb-67761	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch I	ID: 67	761	F	RunNo: 8	8358				
Prep Date: 5/27/2022	Analysis Da	te: 5/	29/2022	9	SeqNo: 3	134018	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 870	5.0	1000		87.1	37.7	212			
Sample ID: Ics-67768	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch I	ID: 67	768	F	RunNo: 8	8358				
Prep Date: 5/27/2022	Analysis Da	te: 5/	30/2022	S	SeqNo: 3	134041	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.9	72.3	137			
Surr: BFB	1900		1000		190	37.7	212			
Sample ID: mb-67768	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch I	ID: 67	768	F	RunNo: 8	8358				
Prep Date: 5/27/2022	Analysis Da	te: 5/	30/2022	\$	SeqNo: 3	134042	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		86.6	37.7	212			
Sample ID: 2205c48-003ams	SampTy	pe: MS		Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	

Sample ID: 2205c48-003ams	Sampi	ype: IVIS	•	I es	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: BH22-14 0'	Batch	n ID: 67 7	768	F	RunNo: 8	8358				
Prep Date: 5/27/2022	Analysis D	ate: 5/ 3	30/2022	S	SeqNo: 3	134045	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	24.08	0	94.6	70	130			
Surr: BFB	1800		963.4		191	37.7	212			

Sample ID: 2205c48-003amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BH22-14 0'** Batch ID: **67768** RunNo: **88358**

Prep Date: 5/27/2022 Analysis Date: 5/30/2022 SeqNo: 3134046 Units: mg/Kg

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2205C48 08-Jun-22**

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB 1

Sample ID: 2205c48-003amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BH22-14 0'** Batch ID: **67768** RunNo: **88358**

Prep Date: 5/27/2022 Analysis Date: 5/30/2022 SeqNo: 3134046 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	24.04	0	92.7	70	130	2.20	20	
Surr: BFB	1800		961.5		189	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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2205C48 08-Jun-22**

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB 1

Sample ID: Ics-67761	SampT	ype: LC	S	Tes	tCode: El	tiles							
Client ID: LCSS	Batc	n ID: 67 7	761	F	RunNo: 8	8358							
Prep Date: 5/27/2022	Analysis D	Date: 5/ 2	29/2022	\$	SeqNo: 3134079			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.96	0.025	1.000	0	96.4	80	120						
Toluene	0.97	0.050	1.000	0	97.3	80	120						
Ethylbenzene	0.95	0.050	1.000	0	95.0	80	120						
Xylenes, Total	2.8	0.10	3.000	0	94.4	80	120						
Surr: 4-Bromofluorobenzene	0.86		1.000		86.0	70	130						

Sample ID: mb-67761	SampT	ype: ME	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch	n ID: 67	761	F	RunNo: 8	3358				
Prep Date: 5/27/2022	Analysis D	ate: 5/	29/2022	8	SeqNo: 3	134080	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		87.6	70	130			

Sample ID: Ics-67768	SampT	ype: LC	S	Tes	tCode: El	iles				
Client ID: LCSS	Batcl	n ID: 67 7	768	F	RunNo: 8					
Prep Date: 5/27/2022	Analysis D	Date: 5/ 3	30/2022	S	SeqNo: 3	134102	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.3	80	120			
Toluene	0.87	0.050	1.000	0	87.0	80	120			
Ethylbenzene	0.86	0.050	1.000	0	85.9	80	120			
Xylenes, Total	2.6	0.10	3.000	0	85.1	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.0	70	130			

Sample ID: mb-67768	SampT	уре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch	n ID: 67	768	F	tunNo: 8					
Prep Date: 5/27/2022	Analysis D	oate: 5/	30/2022	8	SeqNo: 3	134103	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		86.9	70	130			

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2205C48**

08-Jun-22

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB 1

Sample ID: 2205c48-004ams	SampT	уре: МS	3	Tes	tCode: El	iles				
Client ID: BH22-15 0'	Batch	Batch ID: 67768 RunNo: 88358								
Prep Date: 5/27/2022	Analysis D	Analysis Date: 5/30/2022 SeqNo: 31					Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9785	0	94.1	68.8	120			
Toluene	0.94	0.049	0.9785	0	96.3	73.6	124			
Ethylbenzene	0.93	0.049	0.9785	0	95.3	72.7	129			
Xylenes, Total	2.8	0.098	2.935	0	94.7	75.7	126			
Surr: 4-Bromofluorobenzene	0.89		0.9785		91.2	70	130			

Sample ID: 2205c48-004amsd	Samp	Гуре: М S	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BH22-15 0'	Batc	h ID: 67	768	F	RunNo: 8	8358				
Prep Date: 5/27/2022	Analysis [Date: 5/	30/2022	\$	SeqNo: 3	134108	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	0.9804	0	97.4	68.8	120	3.67	20	
Toluene	0.97	0.049	0.9804	0	99.3	73.6	124	3.23	20	
Ethylbenzene	0.97	0.049	0.9804	0	98.9	72.7	129	3.93	20	
Xylenes, Total	2.9	0.098	2.941	0	97.4	75.7	126	3.05	20	
Surr: 4-Bromofluorobenzene	0.89		0.9804		90.5	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 Quanitative Limit
- 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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

505-345-4107 Sample Log-In Check L

Sample Log-In Check List

Client Name:	Vertex Resources Services, Inc.	Work Order Nur	mber: 2205C48		RcptNo: 1
Received By:	Cheyenne Cason	5/27/2022 7:10:00	AM	Chal	
Completed By:	Tracy Casarrubias	5/27/2022 8:04:14	AM		
Reviewed By:	725/27/22				
Chain of Cus	<u>tody</u>				
1. Is Chain of C	ustody complete?		Yes 🗸	No 🗌	Not Present
2. How was the	sample delivered?		Courier		
Log In					
	pt made to cool the sample	es?	Yes 🗸	No 🗌	NA 🗆
4. Were all samp	oles received at a temperati	ure of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆
5. Sample(s) in p	proper container(s)?		Yes 🗹	No 🗆	
6. Sufficient sam	ple volume for indicated tes	st(s)?	Yes 🔽	No 🗌	
7. Are samples (except VOA and ONG) prop	perly preserved?	Yes 🗸	No 🗆	
8. Was preserval	tive added to bottles?		Yes 🗌	No 🗹	NA 🗆
9. Received at le	ast 1 vial with headspace <	1/4" for AQ VOA?	Yes	No 🗆	NA 🗹
10. Were any sam	ple containers received bro	oken?	Yes	No 🔽	# of preserved
	rk match bottle labels? ncies on chain of custody)		Yes 🗸	No 🗆	bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices c	orrectly identified on Chain	of Custody?	Yes 🔽	No 🗆	Adjusted?
13. Is it clear what	analyses were requested?		Yes 🗸	No 🗌	
	g times able to be met? stomer for authorization.)		Yes 🗸	No 🗆	Checked by CMC 5/27/12
Special Handli	ng (if applicable)				
	ified of all discrepancies wi	th this order?	Yes	No 🗆	NA 🔽
Person I	Notified:	Date			
By Who	m:	Via:	The Vall Car	Phone Fax	☐ In Person
Regardin	ng:				
Client In	structions:				
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2208I02

September 07, 2022

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336

FAX:

RE: Onyx 29 CTB1 Heater Treater

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 11 sample(s) on 8/31/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-01 0.5'

 Project:
 Onyx 29 CTB1 Heater Treater
 Collection Date: 8/29/2022 10:00:00 AM

 Lab ID:
 2208I02-001
 Matrix: SOIL
 Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/1/2022 8:51:13 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/1/2022 8:51:13 PM
Surr: DNOP	97.4	21-129	%Rec	1	9/1/2022 8:51:13 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/1/2022 1:09:00 PM
Surr: BFB	95.5	37.7-212	%Rec	1	9/1/2022 1:09:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	9/1/2022 1:09:00 PM
Toluene	ND	0.049	mg/Kg	1	9/1/2022 1:09:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/1/2022 1:09:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/1/2022 1:09:00 PM
Surr: 4-Bromofluorobenzene	91.8	70-130	%Rec	1	9/1/2022 1:09:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	60	mg/Kg	20	9/1/2022 6:27:20 AM

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

Qualifiers:

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

Page 1 of 15

Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-02 0.5'

 Project:
 Onyx 29 CTB1 Heater Treater
 Collection Date: 8/29/2022 10:05:00 AM

 Lab ID:
 2208I02-002
 Matrix: SOIL
 Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/1/2022 9:02:15 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/1/2022 9:02:15 PM
Surr: DNOP	102	21-129	%Rec	1	9/1/2022 9:02:15 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/1/2022 1:48:00 PM
Surr: BFB	94.8	37.7-212	%Rec	1	9/1/2022 1:48:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	9/1/2022 1:48:00 PM
Toluene	ND	0.048	mg/Kg	1	9/1/2022 1:48:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/1/2022 1:48:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	9/1/2022 1:48:00 PM
Surr: 4-Bromofluorobenzene	89.9	70-130	%Rec	1	9/1/2022 1:48:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	60	mg/Kg	20	9/1/2022 6:39:44 AM

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

Qualifiers:

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

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Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-03 0.5'

 Project:
 Onyx 29 CTB1 Heater Treater
 Collection Date: 8/29/2022 10:10:00 AM

 Lab ID:
 2208I02-003
 Matrix: SOIL
 Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/1/2022 9:13:11 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/1/2022 9:13:11 PM
Surr: DNOP	75.8	21-129	%Rec	1	9/1/2022 9:13:11 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/1/2022 2:08:00 PM
Surr: BFB	92.7	37.7-212	%Rec	1	9/1/2022 2:08:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	9/1/2022 2:08:00 PM
Toluene	ND	0.050	mg/Kg	1	9/1/2022 2:08:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	9/1/2022 2:08:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	9/1/2022 2:08:00 PM
Surr: 4-Bromofluorobenzene	89.6	70-130	%Rec	1	9/1/2022 2:08:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	190	60	mg/Kg	20	9/1/2022 8:15:48 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of 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

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Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-04 0.5'

 Project:
 Onyx 29 CTB1 Heater Treater
 Collection Date: 8/29/2022 10:15:00 AM

 Lab ID:
 2208I02-004
 Matrix: SOIL
 Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/1/2022 9:24:07 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/1/2022 9:24:07 PM
Surr: DNOP	89.3	21-129	%Rec	1	9/1/2022 9:24:07 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/1/2022 2:27:00 PM
Surr: BFB	95.4	37.7-212	%Rec	1	9/1/2022 2:27:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	9/1/2022 2:27:00 PM
Toluene	ND	0.048	mg/Kg	1	9/1/2022 2:27:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/1/2022 2:27:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	9/1/2022 2:27:00 PM
Surr: 4-Bromofluorobenzene	90.1	70-130	%Rec	1	9/1/2022 2:27:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	170	60	mg/Kg	20	9/1/2022 8:53:00 AM

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

Qualifiers:

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

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Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-05 2'

 Project:
 Onyx 29 CTB1 Heater Treater
 Collection Date: 8/29/2022 10:20:00 AM

 Lab ID:
 2208I02-005
 Matrix: SOIL
 Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/1/2022 9:35:02 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/1/2022 9:35:02 PM
Surr: DNOP	62.8	21-129	%Rec	1	9/1/2022 9:35:02 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/1/2022 2:47:00 PM
Surr: BFB	103	37.7-212	%Rec	1	9/1/2022 2:47:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	9/1/2022 2:47:00 PM
Toluene	ND	0.048	mg/Kg	1	9/1/2022 2:47:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/1/2022 2:47:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	9/1/2022 2:47:00 PM
Surr: 4-Bromofluorobenzene	92.9	70-130	%Rec	1	9/1/2022 2:47:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	150	60	mg/Kg	20	9/1/2022 9:30:13 AM

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

Qualifiers:

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

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Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-06 2'

 Project:
 Onyx 29 CTB1 Heater Treater
 Collection Date: 8/29/2022 10:25:00 AM

 Lab ID:
 2208I02-006
 Matrix: SOIL
 Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/1/2022 9:45:58 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/1/2022 9:45:58 PM
Surr: DNOP	70.0	21-129	%Rec	1	9/1/2022 9:45:58 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	9/1/2022 3:07:00 PM
Surr: BFB	94.2	37.7-212	%Rec	1	9/1/2022 3:07:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	9/1/2022 3:07:00 PM
Toluene	ND	0.050	mg/Kg	1	9/1/2022 3:07:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	9/1/2022 3:07:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	9/1/2022 3:07:00 PM
Surr: 4-Bromofluorobenzene	90.8	70-130	%Rec	1	9/1/2022 3:07:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	180	60	mg/Kg	20	9/1/2022 9:42:38 AM

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

Qualifiers:

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

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Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-07 2'

Onyx 29 CTB1 Heater Treater **Project:** Collection Date: 8/29/2022 10:30:00 AM 2208I02-007 Lab ID: Matrix: SOIL Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/1/2022 9:56:52 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/1/2022 9:56:52 PM
Surr: DNOP	66.9	21-129	%Rec	1	9/1/2022 9:56:52 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/1/2022 3:27:00 PM
Surr: BFB	95.4	37.7-212	%Rec	1	9/1/2022 3:27:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	9/1/2022 3:27:00 PM
Toluene	ND	0.049	mg/Kg	1	9/1/2022 3:27:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	9/1/2022 3:27:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	9/1/2022 3:27:00 PM
Surr: 4-Bromofluorobenzene	90.9	70-130	%Rec	1	9/1/2022 3:27:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	290	60	mg/Kg	20	9/1/2022 2:03:11 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Page 7 of 15 RL Reporting Limit

Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-08 2'

 Project:
 Onyx 29 CTB1 Heater Treater
 Collection Date: 8/29/2022 10:35:00 AM

 Lab ID:
 2208I02-008
 Matrix: SOIL
 Received Date: 8/31/2022 7:40:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) 9/1/2022 10:07:44 PM ND 14 mg/Kg 1 Motor Oil Range Organics (MRO) 9/1/2022 10:07:44 PM ND 47 mg/Kg 1 Surr: DNOP 76.9 21-129 %Rec 1 9/1/2022 10:07:44 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 9/1/2022 3:47:00 PM 4.7 mg/Kg 1 Surr: BFB 95.6 37.7-212 %Rec 1 9/1/2022 3:47:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 9/1/2022 3:47:00 PM 0.024 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 9/1/2022 3:47:00 PM Ethylbenzene ND 0.047 mg/Kg 1 9/1/2022 3:47:00 PM Xylenes, Total ND 0.095 mg/Kg 1 9/1/2022 3:47:00 PM 9/1/2022 3:47:00 PM Surr: 4-Bromofluorobenzene 90.1 70-130 %Rec 1 Analyst: JMT **EPA METHOD 300.0: ANIONS** Chloride 270 60 9/1/2022 2:15:35 PM ma/Ka 20

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

Qualifiers:

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

Page 8 of 15

Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-01 1'

Project: Onyx 29 CTB1 Heater Treater Collection Date: 8/29/2022 10:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/1/2022 10:18:37 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/1/2022 10:18:37 PM
Surr: DNOP	73.5	21-129	%Rec	1	9/1/2022 10:18:37 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/1/2022 4:07:00 PM
Surr: BFB	94.9	37.7-212	%Rec	1	9/1/2022 4:07:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	9/1/2022 4:07:00 PM
Toluene	ND	0.048	mg/Kg	1	9/1/2022 4:07:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	9/1/2022 4:07:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	9/1/2022 4:07:00 PM
Surr: 4-Bromofluorobenzene	91.5	70-130	%Rec	1	9/1/2022 4:07:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	97	60	mg/Kg	20	9/1/2022 10:44:40 AM

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

Qualifiers:

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

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Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-02 1'

 Project:
 Onyx 29 CTB1 Heater Treater
 Collection Date: 8/29/2022 10:45:00 AM

 Lab ID:
 2208I02-010
 Matrix: SOIL
 Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/1/2022 10:29:27 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/1/2022 10:29:27 PM
Surr: DNOP	75.3	21-129	%Rec	1	9/1/2022 10:29:27 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/1/2022 4:26:00 PM
Surr: BFB	96.5	37.7-212	%Rec	1	9/1/2022 4:26:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	9/1/2022 4:26:00 PM
Toluene	ND	0.047	mg/Kg	1	9/1/2022 4:26:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/1/2022 4:26:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	9/1/2022 4:26:00 PM
Surr: 4-Bromofluorobenzene	92.2	70-130	%Rec	1	9/1/2022 4:26:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	77	60	mg/Kg	20	9/1/2022 10:57:05 AM

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

Qualifiers:

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

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Date Reported: 9/7/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-03 4'

 Project:
 Onyx 29 CTB1 Heater Treater
 Collection Date: 8/29/2022 10:50:00 AM

 Lab ID:
 2208I02-011
 Matrix: SOIL
 Received Date: 8/31/2022 7:40:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/1/2022 10:40:20 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/1/2022 10:40:20 PM
Surr: DNOP	88.9	21-129	%Rec	1	9/1/2022 10:40:20 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/1/2022 4:46:00 PM
Surr: BFB	93.8	37.7-212	%Rec	1	9/1/2022 4:46:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	9/1/2022 4:46:00 PM
Toluene	ND	0.047	mg/Kg	1	9/1/2022 4:46:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	9/1/2022 4:46:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	9/1/2022 4:46:00 PM
Surr: 4-Bromofluorobenzene	91.1	70-130	%Rec	1	9/1/2022 4:46:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	60	mg/Kg	20	9/1/2022 11:09:29 AM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

07-Sep-22

2208102

WO#:

Client: Devon Energy

Project: Onyx 29 CTB1 Heater Treater

Sample ID: MB-69900 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 69900 RunNo: 90702

Prep Date: 8/31/2022 Analysis Date: 8/31/2022 SeqNo: 3243373 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-69900 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69900 RunNo: 90702

Prep Date: 8/31/2022 Analysis Date: 8/31/2022 SeqNo: 3243374 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 100 90 110

Sample ID: MB-69907 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 69907 RunNo: 90757

Prep Date: 9/1/2022 Analysis Date: 9/1/2022 SeqNo: 3244232 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-69907 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69907 RunNo: 90757

Prep Date: 9/1/2022 Analysis Date: 9/1/2022 SeqNo: 3244233 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 98.6 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

07-Sep-22

2208102

WO#:

Client: Devon Energy

Project: Onyx 29 CTB1 Heater Treater

Sample ID: LCS-69888 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 69888 RunNo: 90763

Prep Date: 8/31/2022 Analysis Date: 9/1/2022 SeqNo: 3244630 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual Diesel Range Organics (DRO) 64.4 34 15 50.00 Λ 69.0 127

Surr: DNOP 3.4 15 50.00 0 69.0 64.4 127

Sample ID: MB-69888 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 69888 RunNo: 90763

Prep Date: 8/31/2022 Analysis Date: 9/1/2022 SeqNo: 3244632 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 15
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 7.5 10.00 75.0 21 129

Sample ID: LCS-69899 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 69899 RunNo: 90763

Prep Date: 8/31/2022 Analysis Date: 9/2/2022 SeqNo: 3246702 Units: %Rec

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

Surr: DNOP 5.7 5.000 114 21 129

Sample ID: MB-69899 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 69899 RunNo: 90763

Prep Date: 8/31/2022 Analysis Date: 9/2/2022 SeqNo: 3246703 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 10 10.00 105 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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

0#: 2208I02 07-Sep-22

WO#:

Client: Devon Energy

Project: Onyx 29 CTB1 Heater Treater

Sample ID: Ics-69886 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 69886 RunNo: 90749

Prep Date: 8/31/2022 Analysis Date: 9/1/2022 SeqNo: 3243798 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual 0 Gasoline Range Organics (GRO) 26 5.0 25.00 103 72.3 137 Surr: BFB 2200 1000 217 37.7 212 S

Sample ID: mb-69886 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **69886** RunNo: **90749**

Prep Date: 8/31/2022 Analysis Date: 9/1/2022 SeqNo: 3243799 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 920 1000 92.1 37.7 212

Sample ID: Ics-69889 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

SPK value SPK Ref Val

Client ID: LCSS Batch ID: 69889 RunNo: 90749

Result

Prep Date: **8/31/2022** Analysis Date: **9/1/2022** SeqNo: **3243822** Units: **%Rec**

HighLimit SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit Qual Surr: BFB 2100 1000 213 37.7 212 S

Sample ID: mb-69889 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS Batch ID: 69889 RunNo: 90749
Prep Date: 8/31/2022 Analysis Date: 9/1/2022 SeqNo: 3243823 Units: %Rec

%REC

LowLimit

HighLimit

%RPD

RPDLimit

Qual

Surr: BFB 940 1000 94.0 37.7 212

Qualifiers:

Analyte

- Value exceeds Maximum Contaminant 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

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Hall Environmental Analysis Laboratory, Inc.

07-Sep-22

2208102

WO#:

Client: Devon Energy

Project: Onyx 29 CTB1 Heater Treater

Sample ID: Ics-69886	SampType: LCS TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batch	n ID: 69 8	386	RunNo: 90749						
Prep Date: 8/31/2022	Analysis D	Date: 9/	1/2022	S	SeqNo: 3	243846	Units: mg/K	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	81.0	80	120			
Toluene	0.83	0.050	1.000	0	83.1	80	120			
Ethylbenzene	0.84	0.050	1.000	0	84.3	80	120			
Xylenes, Total	2.5	0.10	3.000	0	83.9	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.2	70	130			
Sample ID: mb-69886	SampType: MBLK TestCode: EPA Method 8021B: Volatiles									
Client ID: PBS	Batch	n ID: 698	386	F	RunNo: 90	0749				
Prep Date: 8/31/2022	Analysis D	Date: 9/	1/2022	S	SeqNo: 3	243847	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		89.8	70	130			
Sample ID: Ics-69889	SampT	ype: LC	LCS TestCode: EPA Method 8021B: Volatiles				•			

Sample ID: Ics-69889	SampTyp	e: LCS	TestC	ode: EPA Method	od 8021B: Volatiles					
Client ID: LCSS	Batch II	D: 69889	Ru	nNo: 90749						
Prep Date: 8/31/2022	Analysis Date	e: 9/1/2022	Se	qNo: 3243870	Units: %Rec					
Analyte	Result I	PQL SPK value	SPK Ref Val	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: 4-Bromofluorobenzene	0.90	1.000		90.3 70	130					

Sample ID: mb-69889	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	ID: 69	889	F	RunNo: 9	0749				
Prep Date: 8/31/2022	Analysis D	ate: 9/	1/2022	S	SeqNo: 3	243871	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	U 80		1 000		89.5	70	130			

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Devon Energy	Work Order Numb	per: 2208I02		RcptNo: 1	
Received By: Juan Rojas	8/31/2022 7:40:00 /	AM	Guaran &		
Completed By: Sean Livingston	8/31/2022 8:25:41 /	AM	Grandy S-L		
Reviewed By: In 8/31/22	-			Jor-	
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 san	nples?	Yes 🗸	No 🗌	NA 🗆	
4. Were all samples received at a tempe	rature of >0° C to 6.0°C	Yes 🗸	No 🗆	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
 Sufficient sample volume for indicated 	test(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and ONG)	properly preserved?	Yes 🗸	No 🗌		
3. Was preservative added to bottles?		Yes \square	No 🗹	NA 🗆	
9. Received at least 1 vial with headspace	e <1/4" for AQ VOA?	Yes	No 🗆	NA 🗹	
0. Were any sample containers received	broken?	Yes	No 🗹	# of preserved	/
Does paperwork match bottle labels? (Note discrepancies on chain of customatics)	dy)	Yes 🔽	No 🗆	bottles checked for pH:	less noted)
2. Are matrices correctly identified on Ch	ain of Custody?	Yes 🗸	No 🗆	Adjusted?	
3. Is it clear what analyses were requested	ed?	Yes 🔽	No 🗆	110	9.21
Were all holding times able to be met? (If no, notify customer for authorization)		Yes 🔽	No 🗆	Checked by: MCC	0.01
pecial Handling (if applicable)					
5. Was client notified of all discrepancie	s with this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified:	Date:				
By Whom:	Via:	eMail	Phone Fax	In Person	
Regarding:					
Client Instructions:					
6. Additional remarks:					
7. Cooler Information					
Cooler No Temp °C Conditio	n Seal Intact Seal No	Seal Date	Signed By		
1 0.9 Good					

Page 390 of 433 Received by OCD: 11/1/2022 7:35:26 AM **ANALYSIS LABORATORY** HALL ENVIRONMENTAL 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 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 www.hallenvironmental.com Direct Rill Devan CC. CHANCE DIXON **Analysis Request** Total Coliform (Present/Absent) 10#170456105 (AOV-ima2) 07S8 (AOV) 09S8 NO3' NO5, PO4, SO4 Tel. 505-345-3975 RCRA 8 Metals PAHs by 8310 or 8270SIMS EDB (Method 504.1) 8081 Pesticides/8082 PCB's Remarks: (ORM \ ORG \ ORG) at 180 (1208) s'8MT MTBE / X3T8 (S) 14:F 22/16/8 222 500 700 8 300 亮 500 400 SS Time HEAL No. 500 010 500 2208 ±07 このこのこのこ Heater Treater 8/30/12 Date **%**□ 225-02710-325 Turn-Around Time: 2- D9 y Kent stallings Rush 29 CTB Ochest Preservative Cooler Temp(including cF): 100 D-Yes Type Via: Project Manager: Sampler: こり theo Project Name: □ Standard # of Coolers: Type and # 20% Received by: Container Project #: Received by On Ice: □ Level 4 (Full Validation) WESSZ-03 0.5' N WESZZ-02 0.5 WES22-01 0.5 Chain-of-Custody Record WESZ-040.5 N N 7 Sample Name 80-2253m 4ES22-06 WES 22-05 4ES25-07 BES2203 BES22-02 BES22-01 april □ Az Compliance Devon/Vertex F, 10 Relinquished by: Relinquished by: □ Other 1,03 00:01 8218 Matrix 20 Chain-Chain-Chain-Chain-Chain-Chain Chain 10:20 10:25 10,05 10:15 05:01 10:85 10:40 10:05 10:50 QA/QC Package: 1000 Time 12/2 19a □ EDD (Type) email or Fax#: Accreditation: Time: Time: Standard □ NELAC Phone #: Date Date:



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

OrderNo.: 2208I67

September 06, 2022

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

FAX

RE: Onyx 29 CTB1 Heater Treater

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 7 sample(s) on 9/1/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2208I67**Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-09 1

Project: Onyx 29 CTB1 Heater Treater **Collection Date:** 8/30/2022 11:30:00 AM

Lab ID: 2208I67-001 **Matrix:** MEOH (SOIL) **Received Date:** 9/1/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/1/2022 5:43:16 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/1/2022 5:43:16 PM
Surr: DNOP	96.8	21-129	%Rec	1	9/1/2022 5:43:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	9/1/2022 8:49:35 AM
Surr: BFB	95.0	37.7-212	%Rec	1	9/1/2022 8:49:35 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	9/1/2022 8:49:35 AM
Toluene	ND	0.049	mg/Kg	1	9/1/2022 8:49:35 AM
Ethylbenzene	ND	0.049	mg/Kg	1	9/1/2022 8:49:35 AM
Xylenes, Total	ND	0.098	mg/Kg	1	9/1/2022 8:49:35 AM
Surr: 4-Bromofluorobenzene	90.0	70-130	%Rec	1	9/1/2022 8:49:35 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	180	60	mg/Kg	20	9/1/2022 3:56:45 PM

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

Qualifiers:

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

Page 1 of 11

Date Reported: 9/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-10 1'

Project: Onyx 29 CTB1 Heater Treater **Collection Date:** 8/30/2022 11:35:00 AM

Lab ID: 2208I67-002 **Matrix:** MEOH (SOIL) **Received Date:** 9/1/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/1/2022 6:25:11 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	9/1/2022 6:25:11 PM
Surr: DNOP	96.5	21-129	%Rec	1	9/1/2022 6:25:11 PM
EPA METHOD 8015D: GASOLINE RANGE	<u> </u>				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	9/1/2022 9:13:07 AM
Surr: BFB	95.7	37.7-212	%Rec	1	9/1/2022 9:13:07 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.021	mg/Kg	1	9/1/2022 9:13:07 AM
Toluene	ND	0.041	mg/Kg	1	9/1/2022 9:13:07 AM
Ethylbenzene	ND	0.041	mg/Kg	1	9/1/2022 9:13:07 AM
Xylenes, Total	ND	0.083	mg/Kg	1	9/1/2022 9:13:07 AM
Surr: 4-Bromofluorobenzene	90.4	70-130	%Rec	1	9/1/2022 9:13:07 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	130	60	mg/Kg	20	9/1/2022 4:09:10 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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

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Analytical Report

Lab Order 2208I67

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/6/2022

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-11 1'

Project: Onyx 29 CTB1 Heater Treater Collection Date: 8/30/2022 11:40:00 AM

Lab ID: 2208I67-003 **Matrix:** MEOH (SOIL) **Received Date:** 9/1/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/1/2022 6:39:11 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/1/2022 6:39:11 PM
Surr: DNOP	80.1	21-129	%Rec	1	9/1/2022 6:39:11 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	9/1/2022 9:36:36 AM
Surr: BFB	96.6	37.7-212	%Rec	1	9/1/2022 9:36:36 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	9/1/2022 9:36:36 AM
Toluene	ND	0.040	mg/Kg	1	9/1/2022 9:36:36 AM
Ethylbenzene	ND	0.040	mg/Kg	1	9/1/2022 9:36:36 AM
Xylenes, Total	ND	0.079	mg/Kg	1	9/1/2022 9:36:36 AM
Surr: 4-Bromofluorobenzene	91.0	70-130	%Rec	1	9/1/2022 9:36:36 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	61	mg/Kg	20	9/1/2022 4:46:22 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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

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Analytical Report

Lab Order **2208I67**Date Reported: **9/6/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-12 1'

 Project:
 Onyx 29 CTB1 Heater Treater
 Collection Date: 8/30/2022 11:45:00 AM

 Lab ID:
 2208I67-004
 Matrix: MEOH (SOIL)
 Received Date: 9/1/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/1/2022 6:52:56 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/1/2022 6:52:56 PM
Surr: DNOP	94.9	21-129	%Rec	1	9/1/2022 6:52:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	9/1/2022 10:00:05 AM
Surr: BFB	95.1	37.7-212	%Rec	1	9/1/2022 10:00:05 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	9/1/2022 10:00:05 AM
Toluene	ND	0.040	mg/Kg	1	9/1/2022 10:00:05 AM
Ethylbenzene	ND	0.040	mg/Kg	1	9/1/2022 10:00:05 AM
Xylenes, Total	ND	0.079	mg/Kg	1	9/1/2022 10:00:05 AM
Surr: 4-Bromofluorobenzene	90.2	70-130	%Rec	1	9/1/2022 10:00:05 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	9/1/2022 4:58:46 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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

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Date Reported: 9/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-05 2'

Project: Onyx 29 CTB1 Heater Treater **Collection Date:** 8/30/2022 11:55:00 AM

Lab ID: 2208I67-005 **Matrix:** MEOH (SOIL) **Received Date:** 9/1/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/1/2022 7:06:43 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/1/2022 7:06:43 PM
Surr: DNOP	86.9	21-129	%Rec	1	9/1/2022 7:06:43 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/1/2022 10:23:30 AM
Surr: BFB	96.2	37.7-212	%Rec	1	9/1/2022 10:23:30 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	9/1/2022 10:23:30 AM
Toluene	ND	0.047	mg/Kg	1	9/1/2022 10:23:30 AM
Ethylbenzene	ND	0.047	mg/Kg	1	9/1/2022 10:23:30 AM
Xylenes, Total	ND	0.094	mg/Kg	1	9/1/2022 10:23:30 AM
Surr: 4-Bromofluorobenzene	90.7	70-130	%Rec	1	9/1/2022 10:23:30 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	60	mg/Kg	20	9/1/2022 5:11:11 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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

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Analytical Report Lab Order 2208I67

Date Reported: 9/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-06 2'

Project: Onyx 29 CTB1 Heater Treater **Collection Date:** 8/30/2022 12:00:00 PM

Lab ID: 2208I67-006 **Matrix:** MEOH (SOIL) **Received Date:** 9/1/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/1/2022 7:20:24 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/1/2022 7:20:24 PM
Surr: DNOP	94.5	21-129	%Rec	1	9/1/2022 7:20:24 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	9/1/2022 10:47:01 AM
Surr: BFB	98.2	37.7-212	%Rec	1	9/1/2022 10:47:01 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.019	mg/Kg	1	9/1/2022 10:47:01 AM
Toluene	ND	0.037	mg/Kg	1	9/1/2022 10:47:01 AM
Ethylbenzene	ND	0.037	mg/Kg	1	9/1/2022 10:47:01 AM
Xylenes, Total	ND	0.075	mg/Kg	1	9/1/2022 10:47:01 AM
Surr: 4-Bromofluorobenzene	92.4	70-130	%Rec	1	9/1/2022 10:47:01 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	120	60	mg/Kg	20	9/1/2022 5:23:35 PM

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

Qualifiers:

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

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Analytical Report Lab Order 2208I67

Date Reported: 9/6/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-07 2'

Project: Onyx 29 CTB1 Heater Treater **Collection Date:** 8/30/2022 12:05:00 PM

Lab ID: 2208I67-007 **Matrix:** MEOH (SOIL) **Received Date:** 9/1/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/1/2022 7:34:07 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/1/2022 7:34:07 PM
Surr: DNOP	94.1	21-129	%Rec	1	9/1/2022 7:34:07 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	9/1/2022 11:10:32 AM
Surr: BFB	95.8	37.7-212	%Rec	1	9/1/2022 11:10:32 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.021	mg/Kg	1	9/1/2022 11:10:32 AM
Toluene	ND	0.043	mg/Kg	1	9/1/2022 11:10:32 AM
Ethylbenzene	ND	0.043	mg/Kg	1	9/1/2022 11:10:32 AM
Xylenes, Total	ND	0.086	mg/Kg	1	9/1/2022 11:10:32 AM
Surr: 4-Bromofluorobenzene	90.5	70-130	%Rec	1	9/1/2022 11:10:32 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	60	mg/Kg	20	9/1/2022 5:36:00 PM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208I67**

06-Sep-22

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Heater Treater

Sample ID: MB-69904 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 69904 RunNo: 90757

Prep Date: 8/31/2022 Analysis Date: 9/1/2022 SeqNo: 3244264 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-69904 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69904 RunNo: 90757

Prep Date: 8/31/2022 Analysis Date: 9/1/2022 SeqNo: 3244265 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 101 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of 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

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Hall Environmental Analysis Laboratory, Inc.

Result

46

4.8

PQL

14

2208167

WO#:

06-Sep-22

Client: Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Heater Treater

Sample ID: MB-69910	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 69	910	F	RunNo: 9	0727				
Prep Date: 9/1/2022	Analysis D	ate: 9/	1/2022	8	SeqNo: 3	243472	Units: mg/K	(g		
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	9.1		10.00		91.0	21	129			
Sample ID: LCS-69910	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 69	910	F	RunNo: 9	0727				
Client ID: LCSS Prep Date: 9/1/2022	Batch Analysis D				RunNo: 9 SeqNo: 3		Units: mg/K	ίg		
			1/2022		_		Units: mg/K	(g %RPD	RPDLimit	Qual
Prep Date: 9/1/2022	Analysis D	ate: 9/	1/2022	5	SeqNo: 3	244526	ŭ	J	RPDLimit	Qual
Prep Date: 9/1/2022 Analyte	Analysis D	ate: 9/	1/2022 SPK value	SPK Ref Val	SeqNo: 3	244526 LowLimit	HighLimit	J	RPDLimit	Qual
Prep Date: 9/1/2022 Analyte Diesel Range Organics (DRO)	Analysis D Result	ate: 9/ PQL 15	1/2022 SPK value 50.00 5.000	SPK Ref Val 0	%REC 88.8 94.8	244526 LowLimit 64.4 21	HighLimit 127	%RPD		Qual
Prep Date: 9/1/2022 Analyte Diesel Range Organics (DRO) Surr: DNOP	Analysis D Result 44 4.7 SampT	ate: 9/ PQL 15	1/2022 SPK value 50.00 5.000	SPK Ref Val 0	%REC 88.8 94.8	244526 LowLimit 64.4 21	HighLimit 127 129	%RPD		Qual

Sample ID: 2208I67-001AMSD	SampT	уре: М \$	SD	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: WES22-09 1'	Batch	ID: 69	910	F	RunNo: 9	0727				
Prep Date: 9/1/2022	Analysis D	ate: 9/	1/2022	S	SeqNo: 3	244529	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	48.45	0	90.0	36.1	154	4.64	33.9	
Surr: DNOP	4.6		4.845		95.9	21	129	0	0	

0

%REC

94.5

98.4

LowLimit

36.1

21

HighLimit

154

129

%RPD

RPDLimit

Qual

SPK value SPK Ref Val

48.31

4.831

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Diesel Range Organics (DRO)

Surr: DNOP

- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

0#: 2208I67 06-Sep-22

WO#:

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Heater Treater

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

Client ID: PBS Batch ID: G90750 RunNo: 90750

Prep Date: Analysis Date: 9/1/2022 SeqNo: 3243897 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 990 1000 99.0 37.7 212

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G90750 RunNo: 90750

Prep Date: Analysis Date: 9/1/2022 SeqNo: 3243898 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 72.3 5.0 25.00 O 85.5 137

Surr: BFB 1800 1000 183 37.7 212

Sample ID: 2208i67-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **WES22-09 1'** Batch ID: **G90750** RunNo: **90750**

Prep Date: Analysis Date: 9/1/2022 SeqNo: 3243908 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual Gasoline Range Organics (GRO) 24 4.9 24.49 0 97.3 70 130 Surr: BFB 979.4 2000 202 37.7 212

Sample ID: 2208i67-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: WES22-09 1' Batch ID: G90750 RunNo: 90750

Prep Date: Analysis Date: 9/1/2022 SeqNo: 3243909 Units: mg/Kg

Result SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte PQL LowLimit Qual 4.9 Gasoline Range Organics (GRO) 24 24.49 100 70 130 2.72 20 Surr: BFB 2000 979.4 200 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2208I67 06-Sep-22**

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Heater Treater

Sample ID: mb SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: B90750 RunNo: 90750

Prep Date: Analysis Date: 9/1/2022 SeqNo: 3243938 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Benzene ND 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

 Surr: 4-Bromofluorobenzene
 0.93
 1.000
 93.5
 70
 130

Sample ID: 100ng btex Ics SampType: LCS TestCode: EPA Method 8021B: Volatiles

0.8299

Client ID: LCSS Batch ID: B90750 RunNo: 90750

0.78

Prep Date:	Analysis [Date: 9/	1/2022	5	SeqNo: 3	243939	Units: mg/k	ζg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.87	0.025	1.000	0	86.6	80	120					
Toluene	0.90	0.050	1.000	0	90.4	80	120					
Ethylbenzene	0.90	0.050	1.000	0	89.8	80	120					
Xylenes, Total	2.7	0.10	3.000	0	89.6	80	120					
Surr: 4-Bromofluorobenzene	0.92		1.000		92.1	70	130					

Sample ID: 2208i67-002ams	SampT	ype: MS	3	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: WES22-10 1'	Batch	1D: B9	0750	F	RunNo: 9	0750				
Prep Date:	Analysis D	ate: 9/	1/2022	SeqNo: 3243949			Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.72	0.021	0.8299	0	86.5	68.8	120			
Toluene	0.74	0.041	0.8299	0	89.6	73.6	124			
Ethylbenzene	0.74	0.041	0.8299	0	88.8	72.7	129			
Xvlenes, Total	2.2	0.083	2.490	0	87.9	75.7	126			

Sample ID: 2208i67-002ams	sd Samp	Гуре: М	SD	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: WES22-10 1'	Batc	h ID: B9	0750	F	RunNo: 9	0750				
Prep Date:	Analysis [Date: 9/	1/2022	8	SeqNo: 3	243950	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.72	0.021	0.8299	0	86.9	68.8	120	0.438	20	
Toluene	0.75	0.041	0.8299	0	89.8	73.6	124	0.212	20	
Ethylbenzene	0.75	0.041	0.8299	0	90.4	72.7	129	1.69	20	
Xylenes, Total	2.2	0.083	2.490	0	90.0	75.7	126	2.39	20	
Surr: 4-Bromofluorobenzene	0.76		0.8299		91.3	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank

94.3

70

130

- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory

4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc.	Work Order Numb	er: 2208l67		RcptNo: 1	
Received By: Cheyenne Cason	9/1/2022 7:30:00 AM	ń	Chul		
Completed By: Cheyenne Cason Reviewed By: 9-1-72	9/1/2022 7:50:30 AM	î.	Chul		
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered?		Courier			
Log In					
Was an attempt made to cool the samp	es?	Yes 🗸	No 🗌	NA 🗆	
4. Were all samples received at a tempera	ture 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 te	est(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and ONG) pro	perly 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 🗹	
0. Were any sample containers received be	roken?	Yes	No 🔽	M of a second	
Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🔽	No 🗆	# of preserved bottles checked for pH: (<2 or >12 unles	s noted)
2. Are matrices correctly identified on Chair		Yes 🗸	No 🗌	Adjusted?	
3. Is it clear what analyses were requested		Yes 🗸	No 🗆		29
4. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🔽	No 🗆	Offecked by: JA	2/1/2
pecial Handling (if applicable)					
15. Was client notified of all discrepancies w	vith this order?	Yes 🗌	No 🗌	NA 🔽	
Person Notified:	Date:				
By Whom:	Via:	eMail	Phone Fax	☐ In Person	
Regarding:					
Client Instructions:					
6. Additional remarks:					
17. Cooler Information Cooler No Temp °C Condition 1 1.0 Good	Seal Intact Seal No Not Present	Seal Date	Signed By		

1000	5	10-10-1	Chall-ol-Custody Record		<u>.</u>	ZU-HOUF			I	110	I	VT	HAII ENVIDONMENT		
Client:	4	Savon I Vertex	rtex	□ Standard	Rush.	,		V		ANAI VSTS	2	V	ARODA	ATOD	by (
				Project Name:	2	,				ed www	Ponviro		www hallenvironmental com		_
Mailin	Mailing Address:	ss: Oh	F.76	thus	Organ 24 CIBI Heater	er Treater		4901 Hawkins NF	awkin s	NW.IIA	- Albino		Albuquerane NM 87109	oc	: 11/
		-		Project #:			1	Tel. 5	505-345-3975			x 505	505-345-4107		1/202
Phone #:	:#:			.322	225-01720-902	302				A	Analysis		Request		22 7.
email	email or Fax#:			Project Manager:	ger:			(0		-	†O	L	(11		35:
QA/QC Packa	QA/QC Package: □ Standard	iii	☐ Level 4 (Full Validation)	Kent	stannags.	She	.208) s	PCB's	0,110	SIMIS	PO ₄ , S		nəsdA\t		26 AM-
Accred	Accreditation:	□ Az C	□ Az Compliance	Sampler: $\mathcal{C}\Delta$	8		7.6.0			1/70	10 ⁵		uəse		
□ NELAC	AC	□ Other	ا	On Ice:	Yes	oN □					1 '8	(AC	기심)		
	☐ EDD (Type)			# of Coolers:	1		6.1						w.		
				Cooler Temp(including cF):	(including CF): [(0c) 27-0-6	TM/						olilo		
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-	11:55	la la	8E522-05 2'			Soo									
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 2209087

September 08, 2022

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

FAX:

RE: Onyx 29 CTB1 Heater Treater

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 15 sample(s) on 9/2/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **2209087**Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-13 1'

Project: Onyx 29 CTB1 Heater Treater **Collection Date:** 8/31/2022 9:15:00 AM

Lab ID: 2209087-001 **Matrix:** MEOH (SOIL) **Received Date:** 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 11:41:47 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/2/2022 11:41:47 AM
Surr: DNOP	81.5	21-129	%Rec	1	9/2/2022 11:41:47 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	9/2/2022 10:28:00 AM
Surr: BFB	91.6	37.7-212	%Rec	1	9/2/2022 10:28:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.022	mg/Kg	1	9/2/2022 10:28:00 AM
Toluene	ND	0.044	mg/Kg	1	9/2/2022 10:28:00 AM
Ethylbenzene	ND	0.044	mg/Kg	1	9/2/2022 10:28:00 AM
Xylenes, Total	ND	0.089	mg/Kg	1	9/2/2022 10:28:00 AM
Surr: 4-Bromofluorobenzene	85.8	70-130	%Rec	1	9/2/2022 10:28:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	9/2/2022 11:39:37 AM

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

Qualifiers:

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

Page 1 of 21

Lab Order 2209087 Date Reported: 9/8/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-14 1'

Project: Onyx 29 CTB1 Heater Treater Collection Date: 8/31/2022 9:20:00 AM

2209087-002 Lab ID: Matrix: MEOH (SOIL) **Received Date:** 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 10:50:36 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/2/2022 10:50:36 AM
Surr: DNOP	88.7	21-129	%Rec	1	9/2/2022 10:50:36 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	9/2/2022 10:48:00 AM
Surr: BFB	92.1	37.7-212	%Rec	1	9/2/2022 10:48:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.022	mg/Kg	1	9/2/2022 10:48:00 AM
Toluene	ND	0.044	mg/Kg	1	9/2/2022 10:48:00 AM
Ethylbenzene	ND	0.044	mg/Kg	1	9/2/2022 10:48:00 AM
Xylenes, Total	ND	0.088	mg/Kg	1	9/2/2022 10:48:00 AM
Surr: 4-Bromofluorobenzene	88.5	70-130	%Rec	1	9/2/2022 10:48:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	65	61	mg/Kg	20	9/2/2022 11:52:01 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Page 2 of 21 RL Reporting Limit

Lab Order 2209087

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/8/2022

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-15 1'

Project: Onyx 29 CTB1 Heater Treater **Collection Date:** 8/31/2022 9:25:00 AM

Lab ID: 2209087-003 **Matrix:** MEOH (SOIL) **Received Date:** 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/2/2022 11:14:22 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/2/2022 11:14:22 AM
Surr: DNOP	97.6	21-129	%Rec	1	9/2/2022 11:14:22 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	9/2/2022 11:08:00 AM
Surr: BFB	94.3	37.7-212	%Rec	1	9/2/2022 11:08:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.021	mg/Kg	1	9/2/2022 11:08:00 AM
Toluene	ND	0.041	mg/Kg	1	9/2/2022 11:08:00 AM
Ethylbenzene	ND	0.041	mg/Kg	1	9/2/2022 11:08:00 AM
Xylenes, Total	ND	0.083	mg/Kg	1	9/2/2022 11:08:00 AM
Surr: 4-Bromofluorobenzene	88.4	70-130	%Rec	1	9/2/2022 11:08:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	9/2/2022 12:04:26 PM

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

Qualifiers:

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

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Lab Order **2209087**Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-16 1'

Project: Onyx 29 CTB1 Heater Treater **Collection Date:** 8/31/2022 9:30:00 AM

Lab ID: 2209087-004 **Matrix:** MEOH (SOIL) **Received Date:** 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 11:38:16 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/2/2022 11:38:16 AM
Surr: DNOP	92.5	21-129	%Rec	1	9/2/2022 11:38:16 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	9/2/2022 11:27:00 AM
Surr: BFB	93.8	37.7-212	%Rec	1	9/2/2022 11:27:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.020	mg/Kg	1	9/2/2022 11:27:00 AM
Toluene	ND	0.040	mg/Kg	1	9/2/2022 11:27:00 AM
Ethylbenzene	ND	0.040	mg/Kg	1	9/2/2022 11:27:00 AM
Xylenes, Total	ND	0.081	mg/Kg	1	9/2/2022 11:27:00 AM
Surr: 4-Bromofluorobenzene	87.8	70-130	%Rec	1	9/2/2022 11:27:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	59	mg/Kg	20	9/2/2022 12:41:40 PM

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

Qualifiers:

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

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Lab Order 2209087

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/8/2022

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-17 1'

 Project:
 Onyx 29 CTB1 Heater Treater
 Collection Date: 8/31/2022 9:35:00 AM

 Lab ID:
 2209087-005
 Matrix: MEOH (SOIL)
 Received Date: 9/2/2022 7:30:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 14 mg/Kg 1 9/2/2022 12:02:05 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 9/2/2022 12:02:05 PM Surr: DNOP 94.0 21-129 %Rec 1 9/2/2022 12:02:05 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 9/2/2022 11:47:00 AM 4.0 mg/Kg 1 Surr: BFB 93.0 37.7-212 %Rec 1 9/2/2022 11:47:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 0.020 mg/Kg 9/2/2022 11:47:00 AM 1 Toluene ND 0.040 mg/Kg 1 9/2/2022 11:47:00 AM Ethylbenzene ND 0.040 mg/Kg 1 9/2/2022 11:47:00 AM Xylenes, Total ND 0.080 mg/Kg 1 9/2/2022 11:47:00 AM Surr: 4-Bromofluorobenzene 89.4 70-130 %Rec 1 9/2/2022 11:47:00 AM **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride ND 60 9/2/2022 12:54:05 PM ma/Ka 20

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

Qualifiers:

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

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Lab Order **2209087**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/8/2022

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-04 4'

 Project:
 Onyx 29 CTB1 Heater Treater
 Collection Date: 8/31/2022 9:40:00 AM

 Lab ID:
 2209087-006
 Matrix: MEOH (SOIL)
 Received Date: 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/2/2022 12:25:56 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/2/2022 12:25:56 PM
Surr: DNOP	93.3	21-129	%Rec	1	9/2/2022 12:25:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	9/2/2022 9:02:21 AM
Surr: BFB	96.9	37.7-212	%Rec	1	9/2/2022 9:02:21 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	9/2/2022 9:02:21 AM
Toluene	ND	0.041	mg/Kg	1	9/2/2022 9:02:21 AM
Ethylbenzene	ND	0.041	mg/Kg	1	9/2/2022 9:02:21 AM
Xylenes, Total	ND	0.082	mg/Kg	1	9/2/2022 9:02:21 AM
Surr: 4-Bromofluorobenzene	90.9	70-130	%Rec	1	9/2/2022 9:02:21 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	9/2/2022 11:16:16 AM

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

Qualifiers:

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

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Lab Order **2209087**Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-08 2'

Project: Onyx 29 CTB1 Heater Treater **Collection Date:** 8/31/2022 9:45:00 AM

Lab ID: 2209087-007 **Matrix:** MEOH (SOIL) **Received Date:** 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 11:52:20 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/2/2022 11:52:20 AM
Surr: DNOP	79.4	21-129	%Rec	1	9/2/2022 11:52:20 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	9/2/2022 9:25:55 AM
Surr: BFB	97.5	37.7-212	%Rec	1	9/2/2022 9:25:55 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	9/2/2022 9:25:55 AM
Toluene	ND	0.040	mg/Kg	1	9/2/2022 9:25:55 AM
Ethylbenzene	ND	0.040	mg/Kg	1	9/2/2022 9:25:55 AM
Xylenes, Total	ND	0.079	mg/Kg	1	9/2/2022 9:25:55 AM
Surr: 4-Bromofluorobenzene	91.4	70-130	%Rec	1	9/2/2022 9:25:55 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	9/2/2022 11:28:36 AM

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

Qualifiers:

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

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Lab Order **2209087**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/8/2022

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-09 2'

 Project:
 Onyx 29 CTB1 Heater Treater
 Collection Date: 8/31/2022 9:55:00 AM

 Lab ID:
 2209087-008
 Matrix: MEOH (SOIL)
 Received Date: 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 12:02:56 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/2/2022 12:02:56 PM
Surr: DNOP	80.8	21-129	%Rec	1	9/2/2022 12:02:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	9/2/2022 9:49:26 AM
Surr: BFB	97.9	37.7-212	%Rec	1	9/2/2022 9:49:26 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	9/2/2022 9:49:26 AM
Toluene	ND	0.040	mg/Kg	1	9/2/2022 9:49:26 AM
Ethylbenzene	ND	0.040	mg/Kg	1	9/2/2022 9:49:26 AM
Xylenes, Total	ND	0.080	mg/Kg	1	9/2/2022 9:49:26 AM
Surr: 4-Bromofluorobenzene	91.7	70-130	%Rec	1	9/2/2022 9:49:26 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	62	60	mg/Kg	20	9/2/2022 11:40:56 AM

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

Qualifiers:

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

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Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Analytical Report

Lab Order **2209087**Date Reported: **9/8/2022**

9/2/2022 10:12:55 AM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-10 2'

 Project:
 Onyx 29 CTB1 Heater Treater
 Collection Date: 8/31/2022 9:55:00 AM

 Lab ID:
 2209087-009
 Matrix: MEOH (SOIL)
 Received Date: 9/2/2022 7:30:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 15 mg/Kg 1 9/2/2022 12:13:32 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 9/2/2022 12:13:32 PM Surr: DNOP 78.7 21-129 %Rec 1 9/2/2022 12:13:32 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 9/2/2022 10:12:55 AM 3.5 mg/Kg 1 Surr: BFB 98.0 37.7-212 %Rec 1 9/2/2022 10:12:55 AM **EPA METHOD 8021B: VOLATILES** Analyst: NSB

ND

ND

ND

ND

92.1

0.017

0.035

0.035

0.069

70-130

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

 EPA METHOD 300.0: ANIONS
 Analyst: NAI

 Chloride
 ND
 60
 mg/Kg
 20
 9/2/2022 11:53:18 AM

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

Qualifiers:

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

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Lab Order **2209087**Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-11 2'

Project: Onyx 29 CTB1 Heater Treater Collection Date: 8/31/2022 10:00:00 AM

Lab ID: 2209087-010 **Matrix:** MEOH (SOIL) **Received Date:** 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 12:24:09 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/2/2022 12:24:09 PM
Surr: DNOP	78.5	21-129	%Rec	1	9/2/2022 12:24:09 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	9/2/2022 10:36:27 AM
Surr: BFB	98.4	37.7-212	%Rec	1	9/2/2022 10:36:27 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	9/2/2022 10:36:27 AM
Toluene	ND	0.040	mg/Kg	1	9/2/2022 10:36:27 AM
Ethylbenzene	ND	0.040	mg/Kg	1	9/2/2022 10:36:27 AM
Xylenes, Total	ND	0.080	mg/Kg	1	9/2/2022 10:36:27 AM
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	1	9/2/2022 10:36:27 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	9/2/2022 12:05:39 PM

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

Qualifiers:

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

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Lab Order **2209087**Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-09 2'

Project: Onyx 29 CTB1 Heater Treater Collection Date: 8/31/2022 10:05:00 AM

Lab ID: 2209087-011 **Matrix:** MEOH (SOIL) **Received Date:** 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 12:34:46 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/2/2022 12:34:46 PM
Surr: DNOP	73.8	21-129	%Rec	1	9/2/2022 12:34:46 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	9/2/2022 10:59:56 AM
Surr: BFB	95.9	37.7-212	%Rec	1	9/2/2022 10:59:56 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.021	mg/Kg	1	9/2/2022 10:59:56 AM
Toluene	ND	0.043	mg/Kg	1	9/2/2022 10:59:56 AM
Ethylbenzene	ND	0.043	mg/Kg	1	9/2/2022 10:59:56 AM
Xylenes, Total	ND	0.086	mg/Kg	1	9/2/2022 10:59:56 AM
Surr: 4-Bromofluorobenzene	90.6	70-130	%Rec	1	9/2/2022 10:59:56 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	9/2/2022 12:18:00 PM

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

Qualifiers:

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

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CLIENT: Vertex Resources Services, Inc.

Analytical Report

Lab Order **2209087**Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-18 2'

Project: Onyx 29 CTB1 Heater Treater **Collection Date:** 8/31/2022 10:30:00 AM

Lab ID: 2209087-012 **Matrix:** MEOH (SOIL) **Received Date:** 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 12:45:25 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	9/2/2022 12:45:25 PM
Surr: DNOP	81.1	21-129	%Rec	1	9/2/2022 12:45:25 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	9/2/2022 11:23:32 AM
Surr: BFB	100	37.7-212	%Rec	1	9/2/2022 11:23:32 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	9/2/2022 11:23:32 AM
Toluene	ND	0.040	mg/Kg	1	9/2/2022 11:23:32 AM
Ethylbenzene	ND	0.040	mg/Kg	1	9/2/2022 11:23:32 AM
Xylenes, Total	ND	0.080	mg/Kg	1	9/2/2022 11:23:32 AM
Surr: 4-Bromofluorobenzene	90.4	70-130	%Rec	1	9/2/2022 11:23:32 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	59	mg/Kg	20	9/2/2022 12:30:21 PM

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

Qualifiers:

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

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Lab Order **2209087**Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-19 3'

Project: Onyx 29 CTB1 Heater Treater **Collection Date:** 8/31/2022 10:35:00 AM

Lab ID: 2209087-013 **Matrix:** MEOH (SOIL) **Received Date:** 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	9/2/2022 12:56:03 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	9/2/2022 12:56:03 PM
Surr: DNOP	75.8	21-129	%Rec	1	9/2/2022 12:56:03 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	9/2/2022 11:47:12 AM
Surr: BFB	97.9	37.7-212	%Rec	1	9/2/2022 11:47:12 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.020	mg/Kg	1	9/2/2022 11:47:12 AM
Toluene	ND	0.040	mg/Kg	1	9/2/2022 11:47:12 AM
Ethylbenzene	ND	0.040	mg/Kg	1	9/2/2022 11:47:12 AM
Xylenes, Total	ND	0.079	mg/Kg	1	9/2/2022 11:47:12 AM
Surr: 4-Bromofluorobenzene	92.7	70-130	%Rec	1	9/2/2022 11:47:12 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	9/2/2022 12:42:42 PM

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

Qualifiers:

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

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CLIENT: Vertex Resources Services, Inc.

Analytical Report

Lab Order **2209087**Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-20 3'

Project: Onyx 29 CTB1 Heater Treater **Collection Date:** 8/31/2022 10:40:00 AM

Lab ID: 2209087-014 **Matrix:** MEOH (SOIL) **Received Date:** 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/2/2022 1:06:42 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	9/2/2022 1:06:42 PM
Surr: DNOP	82.1	21-129	%Rec	1	9/2/2022 1:06:42 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	9/2/2022 12:10:49 PM
Surr: BFB	96.8	37.7-212	%Rec	1	9/2/2022 12:10:49 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.022	mg/Kg	1	9/2/2022 12:10:49 PM
Toluene	ND	0.044	mg/Kg	1	9/2/2022 12:10:49 PM
Ethylbenzene	ND	0.044	mg/Kg	1	9/2/2022 12:10:49 PM
Xylenes, Total	ND	0.089	mg/Kg	1	9/2/2022 12:10:49 PM
Surr: 4-Bromofluorobenzene	90.5	70-130	%Rec	1	9/2/2022 12:10:49 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	59	mg/Kg	20	9/2/2022 1:19:44 PM

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

Qualifiers:

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

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CLIENT: Vertex Resources Services, Inc.

Analytical Report

Lab Order **2209087**Date Reported: **9/8/2022**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WES22-21 1.5'

Project: Onyx 29 CTB1 Heater Treater **Collection Date:** 8/31/2022 10:50:00 AM

Lab ID: 2209087-015 **Matrix:** MEOH (SOIL) **Received Date:** 9/2/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	9/2/2022 1:17:22 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	9/2/2022 1:17:22 PM
Surr: DNOP	83.3	21-129	%Rec	1	9/2/2022 1:17:22 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	9/2/2022 12:34:29 PM
Surr: BFB	101	37.7-212	%Rec	1	9/2/2022 12:34:29 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.021	mg/Kg	1	9/2/2022 12:34:29 PM
Toluene	ND	0.042	mg/Kg	1	9/2/2022 12:34:29 PM
Ethylbenzene	ND	0.042	mg/Kg	1	9/2/2022 12:34:29 PM
Xylenes, Total	ND	0.084	mg/Kg	1	9/2/2022 12:34:29 PM
Surr: 4-Bromofluorobenzene	94.5	70-130	%Rec	1	9/2/2022 12:34:29 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	9/2/2022 1:32:05 PM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#:

2209087 08-Sep-22

Client: Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Heater Treater

Sample ID: MB-69943 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 69943 RunNo: 90777

Prep Date: 9/2/2022 Analysis Date: 9/2/2022 SeqNo: 3245095 Units: mq/Kq

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

Chloride ND 1.5

Sample ID: LCS-69943 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69943 RunNo: 90777

Units: mg/Kg Prep Date: 9/2/2022 Analysis Date: 9/2/2022 SeqNo: 3245096

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

Chloride 14 1.5 15.00 94.4 110

Sample ID: MB-69942 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 69942 RunNo: 90776

Prep Date: 9/2/2022 Analysis Date: 9/2/2022 SeqNo: 3247708 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-69942 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 69942 RunNo: 90776

Prep Date: 9/2/2022 Analysis Date: 9/2/2022 SeqNo: 3247709 Units: mg/Kg

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

15 15.00 Chloride 1.5 n 98.8 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

08-Sep-22

2209087

WO#:

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Heater Treater

Sample ID: MB-69936 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 69936 RunNo: 90778 Prep Date: 9/2/2022 Analysis Date: 9/2/2022 SeqNo: 3244905 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result Diesel Range Organics (DRO) ND 15 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 9.0 10.00 90.1 21 129

Sample ID: LCS-69936	SampT	SampType: LCS TestCode: EPA Method 801				8015M/D: Die	esel Range	e Organics		
Client ID: LCSS	Batcl	n ID: 69 9	936	F	RunNo: 90	0778				
Prep Date: 9/2/2022	Analysis D	Date: 9/	2/2022	SeqNo: 3244906			Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	90.5	64.4	127			
Surr: DNOP	4.4		5.000		87.5	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 Quanitative 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2209087

08-Sep-22

Client: Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Heater Treater

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

Client ID: PBS Batch ID: **G90762** RunNo: 90762

Prep Date: Analysis Date: 9/2/2022 SeqNo: 3245256 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 980 1000 98.1 37.7 212

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G90762 RunNo: 90762

Prep Date: Analysis Date: 9/2/2022 SeqNo: 3245257 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 5.0 25.00 O 101 72.3 137

Surr BFB 2000 1000 203 37.7 212

Sample ID: 2209087-006AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: BES22-04 4' Batch ID: **G90762** RunNo: 90762

Prep Date: Analysis Date: 9/2/2022 SeqNo: 3245258 Units: mg/Kg

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result POI %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) 20 4.1 20.41 0 96.7 70 130 Surr: BFB 1600 816.3 198 37.7 212

Sample ID: 2209087-006AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BES22-04 4' Batch ID: G90762 RunNo: 90762

Prep Date: Analysis Date: 9/2/2022 SeqNo: 3245259 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual Gasoline Range Organics (GRO) 19 4.1 20.41 93.6 70 3.32 20 130 Surr: BFB 1600 816.3 196 37.7 212 0 0

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: A90773 RunNo: 90773

Prep Date: Analysis Date: 9/2/2022 SeqNo: 3245742 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 5.0 0 72.3 25.00 99.9 137 Surr: BFB 2100 1000 210 37.7 212

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

Client ID: PBS Batch ID: A90773 RunNo: 90773

Prep Date: Units: mg/Kg Analysis Date: 9/2/2022 SeqNo: 3245743

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2209087** *08-Sep-22*

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Heater Treater

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

Client ID: PBS Batch ID: A90773 RunNo: 90773

Prep Date: Analysis Date: 9/2/2022 SeqNo: 3245743 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 99.9 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 Quanitative Limit
- 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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2209087

08-Sep-22

Client: Vertex Resources Services, Inc. **Project:** Onyx 29 CTB1 Heater Treater

Sample ID: mb SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: **B90762** RunNo: 90762

Batch ID: **B90762**

Prep Date: Analysis Date: 9/2/2022 SeqNo: 3245287 Units: mq/Kq

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Benzene ND 0.025

Toluene ND 0.050 0.050 Ethylbenzene ND Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.90 1.000 90.4 70 130

Sample ID: 100ng btex Ics SampType: LCS TestCode: EPA Method 8021B: Volatiles

Prep Date: Analysis Date: 9/2/2022 SeqNo: 3245288 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.000 0.90 0.025 0 90.1 80 120 Benzene Toluene 0.94 0.050 1.000 0 93.6 80 120 0 93.0 80 Ethylbenzene 0.93 0.050 1.000 120 0 92.0 Xylenes, Total 2.8 0.10 3.000 80 120 Surr: 4-Bromofluorobenzene 0.93 1.000 92.7 70 130

RunNo: 90762

Sample ID: 2209087-007AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: BES22-08 2' Batch ID: **B90762** RunNo: 90762

Prep Date: Analysis Date: 9/2/2022 SeqNo: 3245289 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 88.3 0.70 0.020 0.7905 68.8 120 Benzene O Toluene 0.72 0.040 0.7905 0 90.8 73.6 124 0 91.3 72.7 129 Ethylbenzene 0.72 0.040 0.7905 Xylenes, Total 2.1 0.079 2.372 0 90.4 75.7 126 Surr: 4-Bromofluorobenzene 93.9 0.74 0.7905 70 130

TestCode: EPA Method 8021B: Volatiles Sample ID: 2209087-007AMSD SampType: MSD

BES22-08 2' Batch ID: **B90762** Client ID: RunNo: 90762

Prep Date:	Analysis [analysis Date: 9/2/2022			SeqNo: 3245290			g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.68	0.020	0.7905	0	86.5	68.8	120	2.06	20	
Toluene	0.71	0.040	0.7905	0	89.6	73.6	124	1.37	20	
Ethylbenzene	0.71	0.040	0.7905	0	89.5	72.7	129	1.98	20	
Xylenes, Total	2.1	0.079	2.372	0	89.3	75.7	126	1.28	20	
Surr: 4-Bromofluorobenzene	0.75		0.7905		94.9	70	130	0	0	

Qualifiers:

Client ID:

LCSS

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference
- Analyte detected in the associated Method Blank
- Е Estimated value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2209087** *08-Sep-22*

Client: Vertex Resources Services, Inc.

Project: Onyx 29 CTB1 Heater Treater

Sample ID: mb SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: **B90773** RunNo: 90773 Prep Date: Analysis Date: 9/2/2022 SeqNo: 3245771 Units: mg/Kg Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 0.97 1.000 96.5 70 130

Sample ID: 100ng btex lcs2	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: B9	0773	F	RunNo: 9	0773				
Prep Date:	Analysis [Date: 9/	2/2022	8	SeqNo: 3	245772	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	1.000	0	80.7	80	120			
Toluene	0.84	0.050	1.000	0	83.7	80	120			
Ethylbenzene	0.86	0.050	1.000	0	85.5	80	120			
Xylenes, Total	2.6	0.10	3.000	0	85.4	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		98.4	70	130			

Qualifiers:

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

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

Sample Log-In Check List

Client Name: Work Order Number: 2209087 Vertex Resources RcptNo: 1 Services, Inc. Chul Received By: Cheyenne Cason 9/2/2022 7:30:00 AM Completed By: Cheyenne Cason 9/2/2022 7:39:32 AM Reviewed By: 9/2/22 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 🗌 Were all samples received at a temperature of >0° C to 6.0°C No Yes 🗸 NA 🗌 Sample(s) in proper container(s)? Yes 🗸 No 6. Sufficient sample volume for indicated test(s)? Yes V No 7. Are samples (except VOA and ONG) properly preserved? Yes V No 8. Was preservative added to bottles? Yes No V NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No | NA V Yes 10. Were any sample containers received broken? No V # of preserved bottles checked 11. Does paperwork match bottle labels? No 🗌 Yes V for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) 12. Are matrices correctly identified on Chain of Custody? Adjusted? Yes V No 🗌 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 Checked by: In 9/2/22 14. Were all holding times able to be met? Yes V No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By Good 1.3 Not Present 2 0.9 Good Not Present

Client	Ilalli	Chain-or-Custody Record	Turn-Around Time: Same	me-09y			IALL	ENV	IRONI	HALL ENVIRONMENTAL PAINT
Kron	XXXXX VET ECK		١				ANALYSIS	YSIS	1	ABORATORY
Mailing	Mailing Address:		Cmgx 29 CT81	181			www.hal		www.hallenvironmental.com	
		30 F.12	Project #:	Treater	490	1 Hawk	4901 Hawkins NE -		Albuquerque, NM 87109	601.2
Phone #:	#		200-02110-322	200	<u>.</u>	. 505-54	A A A A A A A A A A A A A A A A A A A	Analysis I	505-345-4107 Request	
email or Fax#:	r Fax#:		Project Manager:		_	-		†O	(11	
QA/QC Packa □ Standard	QA/QC Package:	: Level 4 (Full Validation)	Kent stainings	sbui	s (805.	bcB,a	SMIS	PO₄, S	ıəsdA\t	
Accreditation:	tation:	☐ A≱ Compliance	Sampler: C.D.				0728	10 ⁵ '	uəse	
□ NELAC	AC	□ Other	100000	ON [N '		
☐ EDD (Type)	(Type)		# of Coolers: 2 . 1	4-6.1 = 1.3				_		
			Cooler Temp(including cF): 1.	(00) 6'0= 1'0-0.						
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	9:25	4ESZZ-15 1'		603						
	9:30	WESZZ-16 1'		hao						
	9:35	WES22-17		500						
	01:6	BE522-04 4'		300						
	9:45			700						
	9:50	85522-09		808						
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Date:	Time:	Relinquished by:	Received by: Via:	9 Date Time	Remarks:	1	10	43	Deven	Page
Date:	Time:	Relinquished by:	Received by: Via:	Date Time		1	1 . 1	11/10	r.	
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Client:	Chain-of-Custody Record	Ë.	HALL ENVIRONMENTAL
	DEVUM /VERTEX	☐ Standard ☐ Rush Project Name:	ANALYSIS LABORATOR
Mailing Address:	ess: On Eile	Ongr 29 CTB / Heater Trustur	www.hallenvironmental.com
	1	1	ůΙ.
Phone #:		200-021/0-222	Tel. 505-345-3975 Fax 505-345-4107 Analysis Request
email or Fax#:	#:	Project Manager:	(0
QA/QC Package: ☐ Standard	ge:	Kent stallings	oO⁴' 2© SIWS
Accreditation.	A 47 Con	Z roman	32 PC 32 PC 32 PC 32, PC
□ NELAC		On Ice: A Yes	/8088/ 04.11 NC
☐ EDD (Type)	1	olers: 2 1.4	GRades d 50 10 c tals (O ₃ ,
		1	astic letho y 83 k, <i>N</i> oA)
Date Time	Matrix Sample Name	Container Preservative HEAL No. Type and # Type	BTEX) 8081 Pd
8/31 10:35	50,7	402 ICE	
01:01	40 1 45525- 50 3'	210	
05:01	SO WESZZ- 21 1.5'	5)0 /	
Date: Time:	Relinquished by:	Received by: Via: A Date Time	Remarks: CC: Chance Dixon
All 77 (90)	Relinquished by:	Received by: Via: Date Time	10 #== 20456/05
- 62	NAME OF THE PARTY	1. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	

Received by OCD: 11/1/2022 7:35:26 AM
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Page 6 Oil Conservation Division

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 Division
 Incident ID
 nAPP2213024415

 District RP
 Facility ID

Application ID

Closure

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

Closure Report Attachment Checklist: Each of the follow	ing 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 ph must be notified 2 days prior to liner inspection)	notos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate	ODC District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file c may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate an human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or restore, reclaim, and re-vegetate the impacted surface area to the accordance with 19.15.29.13 NMAC including notification to the	
Printed Name:Dale Woodall	Title: Environment Professional
Signature: Dale Woodall	Date:10/19/2022
email:dale.wodall@dvn.com	Telephone:575-7481838
OCD Only	
Received by:	Date:
	party of liability should their operations have failed to adequately investigate and face water, human health, or the environment nor does not relieve the responsible and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

Received by OCD: 11/1/2022 7:35:26 AM Form C-141 State of New Mexico
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Incident ID	nAPP2116441032
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release? Did this release impact groundwater or surface water?	75 (ft bgs)		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No☐ Yes ☒ No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No ☐ Yes ☒ No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying a subsurface mine?			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No		
Are the lateral extents of the release within a 100-year floodplain?	∑ Yes ☐ No		
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No		
	⊠ Yes □ No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil		
Characterization Report Checklist: Each of the following items must be included in the report.			
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody	ls.		

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

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	1 480 702 01 70
Incident ID	nAPP2116441032
District RP	
Facility ID	
Application ID	

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
□ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and renhuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the conaccordance with 19.15.29.13 NMAC including notification to the O	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete. Title: _Environment Professional
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

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

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 134034

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	134034
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2213024415 ONYX PWU 29 CTB 1, thank you. This closure is approved.	11/22/2022