

Incident ID	nAPP2201957333
District RP	
Facility ID	fAPP2201734945
Application ID	


Closure

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

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

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

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

Printed Name: Kelton Beaird Title: Environmental Manager
 Signature:  Date: 6-13-23
 email: KBeaird@btaoil.com Telephone: 432-312-2203

OCD Only

Received by: Jocelyn Harimon Date: 06/13/2023

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

Closure Approved by: Robert Hamlet Date: 11/6/2023
 Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced



May 10, 2022

Vertex Project #: 22E-00196

Spill Closure Report: Nymeyer A#1 Tank Battery
Unit C, Section 15, Township 23 South, Range 28 East
API: 30-015-26576
County: Eddy
Incident ID: nAPP2201957333

Prepared For: BTA Oil Producers, LLC
104 South Pecos Street
Midland, Texas 79701

New Mexico Oil Conservation Division - District 2 - Artesia

811 S. 1st Street
Artesia, New Mexico 88210

BTA Oil Producers, LLC (BTA) retained Vertex Resource Services Inc. (Vertex) to conduct a spill assessment and remediation for an oil release that occurred on January 18, 2022, at Nymeyer A#1 Tank Battery, API 30-015-26576 (hereafter referred to as "Nymeyer"). BTA submitted an initial C-141 Release Notification (Attachment 1) to New Mexico Oil Conservation Division (NMOCD) District 2 on January 19, 2022. Incident ID number nAPP2201957333 was assigned to this incident.

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

Incident Description

On January 18, 2022, a release at BTA's Nymeyer site occurred when there was a malfunction on a dump valve causing fluid to dump into the water tank. The fluid overflowed the tank and it spilled into the area inside the earthen containment. The overflow of the tank resulted in the release of 10 barrels of oil into the containment. After the release, a hydrovac was brought on-site to recover the fluids. The volume of the recovered fluids is unknown. No oil was released into waterways.

Site Characterization

The release at Nymeyer occurred on private land at 32.31074° N, 104.07748° W, approximately 1.98 miles northeast of Loving, New Mexico. The legal description for the site is Unit C, Section 15, Township 23 South, Range 28 East in Eddy County, New Mexico. This location is within the Permian Basin in southeast New Mexico and has historically been used

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201 S Mesa Street, Carlsbad, New Mexico 88220, USA | P 575.725.5001

for oil and gas exploration and production, and rangeland.

Nymeyer 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 area on the southwest corner of the constructed pad where the earthen containment is located, directly north of the access road (Attachment 2 – Figure 1).

The surrounding landscape is associated with ridges, fans, fan remnants, and alluvial fans with elevations ranging between 1,100 and 5,300 feet. The climate is semiarid with average annual precipitation ranging between 7 and 15 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be principally 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 Nymeyer is comprised primarily of Qa – Alluvium from the Holocene to upper 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 Reagan Loam, Upton Gravelly, and Upton Soils. The soil is well-drained with low to high runoff. The karst geology potential for Nymeyer is medium (United States Department of the Interior, Bureau of Land Management, 2022)

There is no surface water located at Nymeyer. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is the Pecos River located approximately 0.97 miles east of the site. There is a riverine located approximately 0.6 miles south of the site (United States Fish and Wildlife Service, 2022). At Nymeyer, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

The nearest active well to Nymeyer is a USGS monitoring well located approximately 0.40 miles southwest of the site (United States Department of the Interior, United States Geological Survey, 2021). Data from 2022 shows the USGS well had a depth to groundwater of 20 feet below ground surface (bgs). Information pertaining to the depth to groundwater determination is included in Attachment 3.

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

BTA Oil Producers, LLC
Nymeyer A#1, nAPP2201957333

2022 Spill Assessment and Closure
May 2022

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

Remedial Actions

On January 18, 2022, BTA contracted Vertex to complete release delineation and remediation at Nymeyer through field screening procedures, oversight of the remediation fieldwork, and final confirmatory sampling. The initial spill inspection and site characterization activities at Nymeyer were completed by Vertex on February 10 through March 9, 2022. The daily field reports and field screening data associated with the visits are included in Attachment 4. The extent of the release was determined to be approximately 5,055 square feet. Initial characterization sample locations are presented in Figure 1 (Attachment 2) and laboratory results are presented in Table 2 (Attachment 6).

During excavation and following the completion of excavation activities from March 24 to April 19, 2022, Vertex provided four 48-hour notifications of confirmation sampling to NMOCD (Attachment 5), as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC. The release was remediated horizontally and vertically between March 24 and April 20, 2022, with a Vertex representative on-site to conduct field screening procedures. The final square footage of the excavation was 6,411 square feet. On April 20, 2022, excavation was completed with approximately 908 total yards excavated and hauled to Lea Land Disposal Site New Mexico.

On March 28 through April 20, 2022, Vertex collected a total of 35 five-point composite confirmatory samples from the base and sidewalls of the excavation, at depths ranging between 2 feet and 8 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.

On April 26, 2022, backfill was completed for the release. Approximately 700 yards of clean, uncontaminated soil were obtained from the landowner for this purpose.

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, or equivalent, was used to map the approximate center of each of the five-point composite samples. The confirmatory sample locations are presented on Figure 2 (Attachment 2). Relevant equipment and prominent features/reference points at the site are mapped as well.

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BTA Oil Producers, LLC
Nymeyer A#1, nAPP2201957333

2022 Spill Assessment and Closure
May 2022

Closure Request

Vertex recommends no additional remediation action to address the release at Nymeyer. Laboratory analyses of confirmation samples collected at Nymeyer show final confirmatory 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 this incident (nAPP2201957333) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. BTA certifies that all information in this report and the attachments is 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 January 18, 2022, release at Nymeyer.

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

Chance Dixon

5/10/2022

Chance Dixon, B.Sc.
PROJECT MANAGER, REPORTING

Date

Dhugal Hanton

5/10/2022

Dhugal Hanton B.Sc., P.Ag., SR/WA, P.Biol.
VP US OPERATIONS, REPORT REVIEW

Date

BTA Oil Producers, LLC
Nymeyer A#1, nAPP2201957333

2022 Spill Assessment and Closure
May 2022

Attachments

- Attachment 1. NMOCD C-141 Report
- 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

BTA Oil Producers, LLC
Nymeyer A#1, nAPP2201957333

2022 Spill Assessment and Closure
May 2022

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- New Mexico Water Rights Reporting System. (2019b). *Point of Diversion Location Report*. Retrieved from <http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html>
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- United State Fish and Wildlife Service. (2019). *National Wetland Inventory Surface Waters and Wetland*. Retrieved from <https://www.fws.gov/wetlands/data/mapper.html>

BTA Oil Producers, LLC
Nymeyer A#1, nAPP2201957333

2022 Spill Assessment and Closure
May 2022

Limitations

This report has been prepared for the sole benefit of BTA Oil Producers, LLC. 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 BTA. 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	nAPP2201957333
District RP	
Facility ID	fAPP2201734945
Application ID	

Release Notification

Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) nAPP2201957333
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: 32.31074 Longitude: -104.07748

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Nymeyer A #1 Tank Battery	Site Type: Tank Battery
Date Release Discovered: 1/18/2022	API# (if applicable) Nearest well: Nymeyer A #1 API #30-015-26576

Unit Letter	Section	Township	Range	County
C	15	23S	28E	Eddy

Surface Owner: State Federal Tribal Private (Name: Nymeyer Farms LLC)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 10 BBL	Volume Recovered (bbls) TBD
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Malfunction of controller on dump valve.

Causing fluid to dump to water tank and overflowing the tank. Spill went onto an area inside the earthen dike walls. Unknown volume of oil recovered as of date of this report being filed.

(Spill calculation spreadsheet pending measurement of affected area.)

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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?	<u>20</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody


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

State of New Mexico
Oil Conservation Division

Page 4

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Printed Name: Kelton Beaird Title: Environmental Manager
 Signature:  Date: 6-13-23
 email: KBeaird@btaoil.com Telephone: 432-312-2203

OCD Only

Received by: Jocelyn Harimon Date: 06/13/2023

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2201957333
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Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

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

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

Printed Name: Kelton Beard Title: Environmental Manager
 Signature:  Date: 6-13-23
 email: KBeard@btaoil.com Telephone: 432-312-2203

OCD Only

Received by: Jocelyn Harimon Date: 06/13/2023

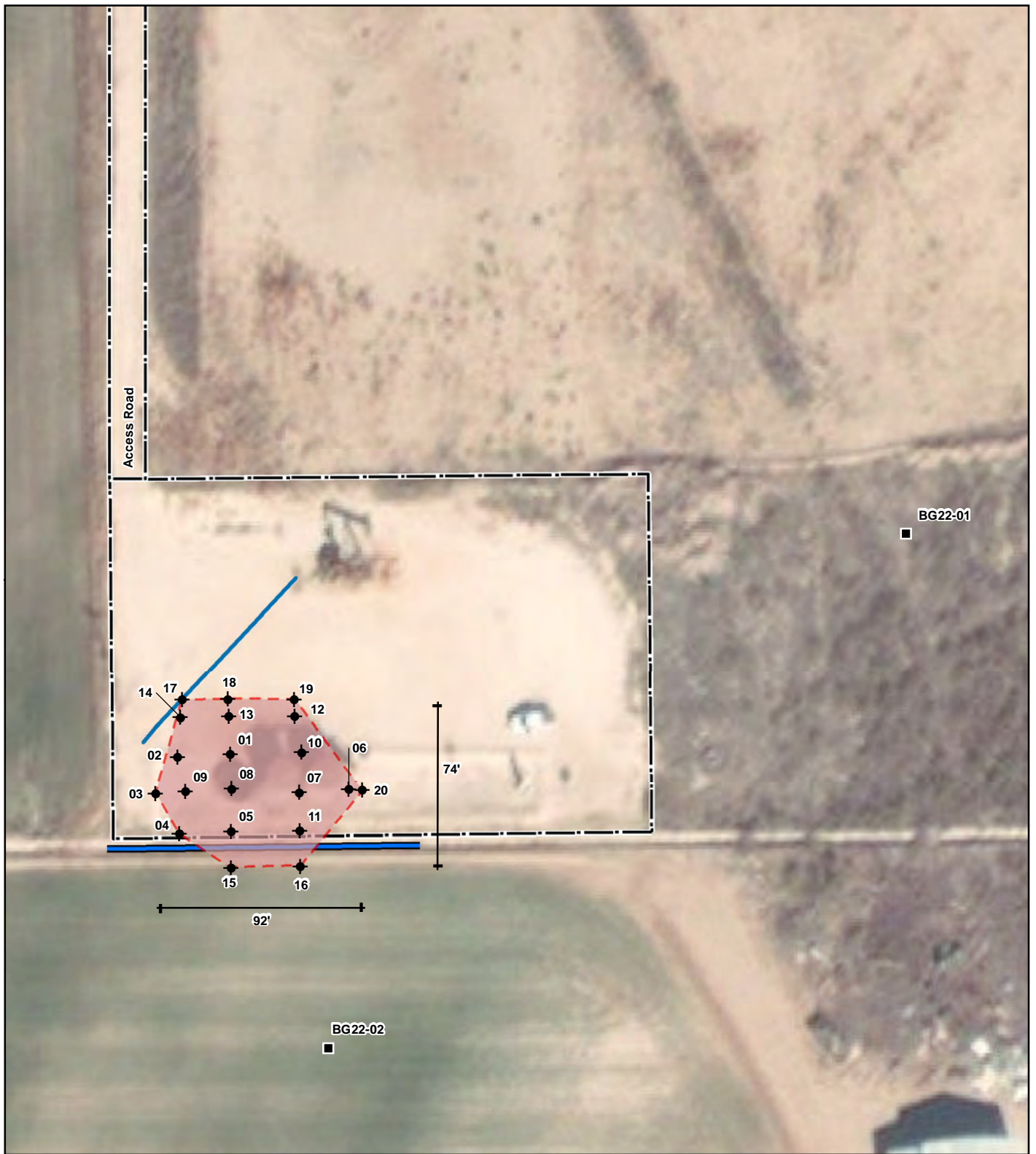
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

ATTACHMENT 2

Document Path: \\vxs-s-fs01\shared\wps04 - Geomatics\1-Projects\ US PROJECTS\BTA Oil Producers LLC\22E-00198\Nymeyer A #1 Tank Battery.mxd



- Background Sample
- ◆ Borehole (prefixed by "BH22-")
- Electric Line
- Irrigation Ditch
- - - Approximate Spill Extent (5,055 sq. ft)
- - - Approximate Lease Boundary



0 10 20 40 ft.
 NAD 1983 UTM Zone 13N
 Date: Mar 10/22

Map Center:
 Lat: 32.310971,
 Long: -104.077169



**Characterization Schematic
 Nymeyer A #1 Tank Battery**

FIGURE:
1



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



Note: Background imagery from ESRI, 2020.

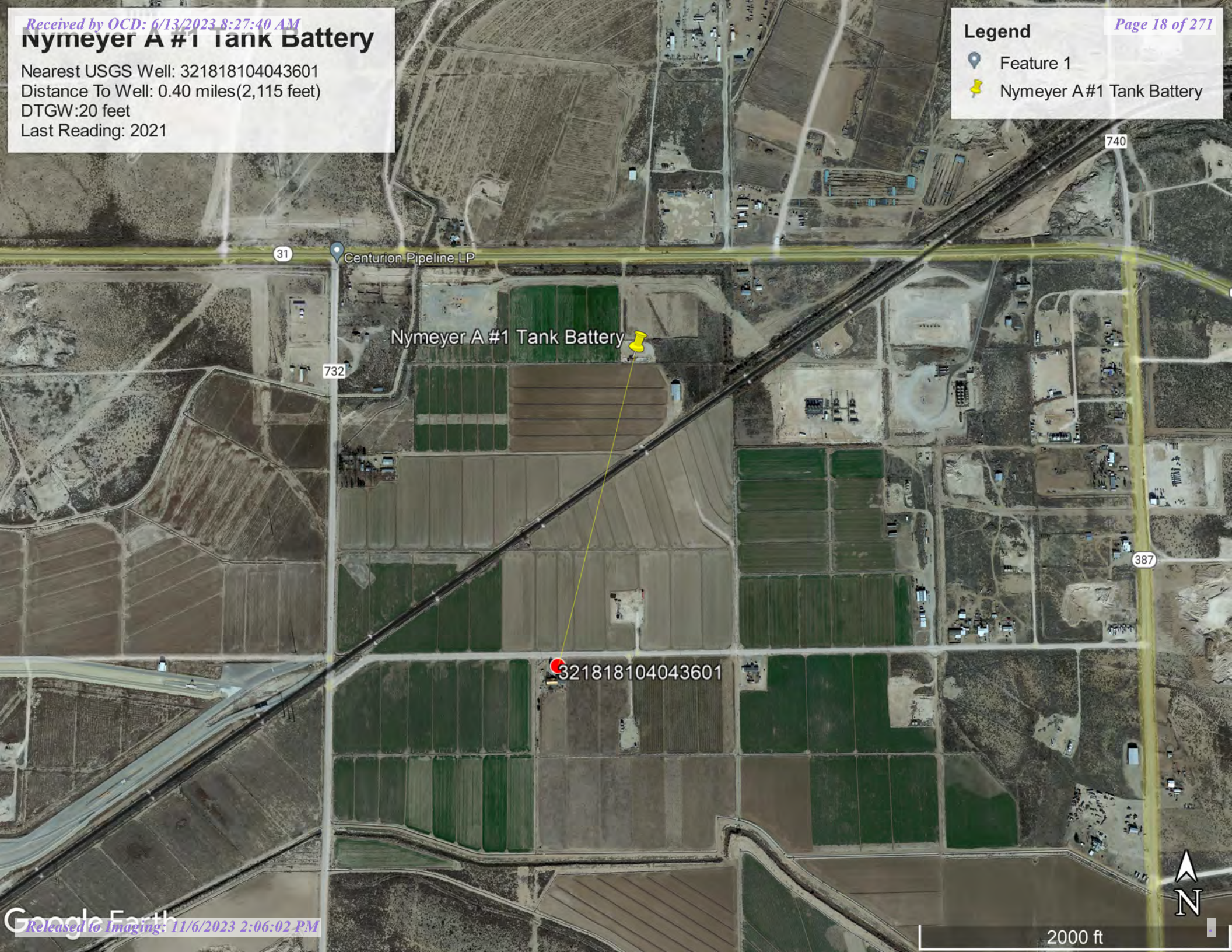
ATTACHMENT 3

Nymeyer A #1 Tank Battery

Nearest USGS Well: 321818104043601
Distance To Well: 0.40 miles (2,115 feet)
DTGW: 20 feet
Last Reading: 2021

Legend

-  Feature 1
-  Nymeyer A#1 Tank Battery



31

Centurion Pipeline LP

740

732

Nymeyer A #1 Tank Battery

387

321818104043601



2000 ft



Nymeyer A #1 Tank Battery

USGS 0.5 mile radius

Legend

-  Feature 1
-  Nymeyer A#1 Tank Battery



Nymeyer A #1 Tank Battery

321818104043601

732

31

728

728

285

387



1 mi



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[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data 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 =

- 321818104043601

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321818104043601 23S.28E.15.32111

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°18'18.5", Longitude 104°04'44.7" NAD83

Land-surface elevation 3,004.90 feet above NGVD29

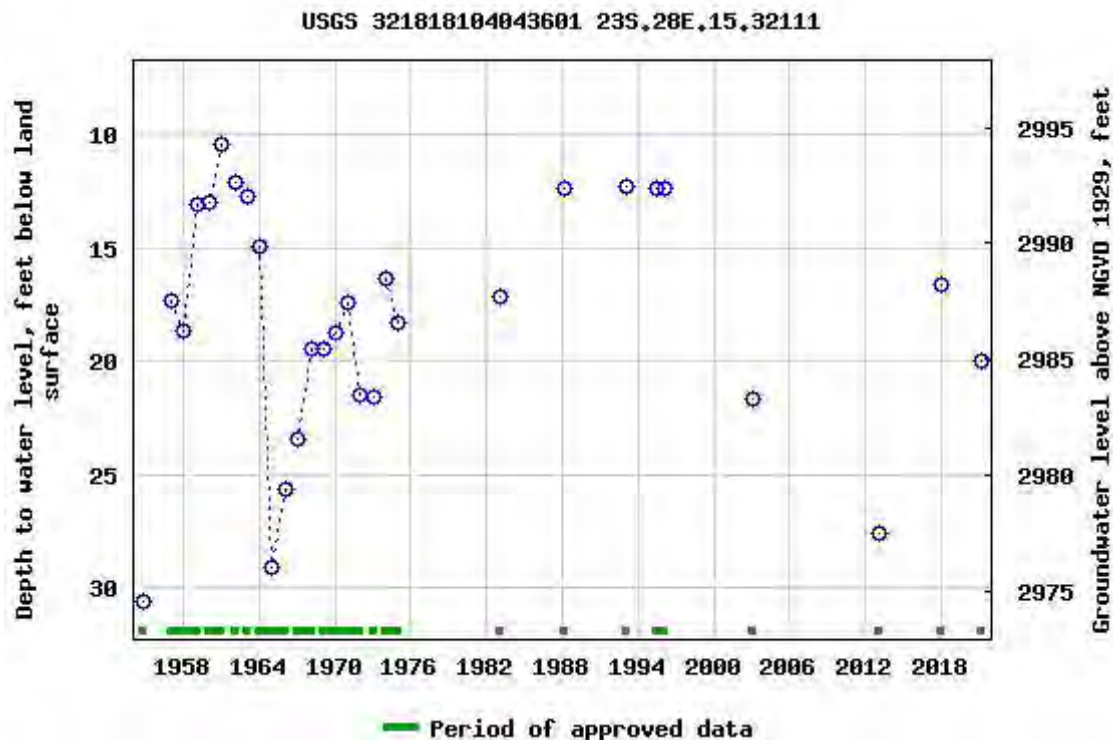
The depth of the well is 160 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) 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.
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URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2022-01-25 09:29:38 EST

0.56 0.48 nadww01

Closure Criteria Worksheet			
Site Name: Nymeyer A #1 Tank Battery			
Spill Coordinates:		X: 32.31074	Y: -104.07748
Site Specific Conditions		Value	Unit
1	Depth to Groundwater	20	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	5,134	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	13,826	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	1,810	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	2,115	feet
	ii) Within 1000 feet of any fresh water well or spring	2,115	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	3,150	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low
10	Within a 100-year Floodplain	500	year
11	Soil Type	Rc, Uo, Up	
12	Ecological Classification	Loamy, Shallow	
13	Geology	Qa	
NMAC 19.15.29.12 E (Table 1) Closure Criteria		<50'	<50' 51-100' >100'

ATTACHMENT 4



Daily Site Visit Report

Client:	<u>BTA Oil Producers LLC</u>	Inspection Date:	<u>2/10/2022</u>
Site Location Name:	<u>Nymeyer A#1 Tank Battery</u>	Report Run Date:	<u>2/11/2022 12:25 AM</u>
Client Contact Name:	<u>Bob Hall</u>	API #:	<u></u>
Client Contact Phone #:	<u>432-312-2203</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>2/10/2022 7:25 AM</u>
Departed Site	<u>2/10/2022 4:15 PM</u>

Field Notes

- 9:26** Arrived on site to begin delineation.
- 9:27** Collected BH22-01 through BH22-11 around the containment. All of them hit refusal at 1-2'.
- 13:52** BH22-01 is hot on chlorides at surface and 2'.
 BH22-02 is hot on chlorides at surface and clean on all field screening at 2'.
 BH22-03 is clean on all field screening at surface and 2'.
 BH22-04 is clean on all field screening at surface and 2'.
 BH22-05 is hot on chlorides at surface and hot on TPH and chlorides at 2'.
 BH22-06 is clean on all field screening at surface and 2'.
 BH22-07 is hot on TPH and chlorides at surface and 2'.
 BH22-08 is hot on all field screening at surface and 2'.
 BH22-09 is hot on all field screening at surface and 2'.
 BH22-10 is hot on all field screening at surface and 2'.
 BH22-11 is hot on all field screening at 2'.
- 13:54** Unable to step out BH22-04, BH22-05, and BH22-11 to the south because it is parallel to farmland.
- 14:44** Collected BG22-01 at surface and 1' east of the location. Hit refusal at 1'. Clean on titration at both depths.



Daily Site Visit Report

15:04 Collected BH22-12 through BH22-14. Hit refusal at 1'. Clean on all field screening at surface and 1'. They are stepped out from BH22-01, BH22-02, and BH22-10.

Next Steps & Recommendations

1



Daily Site Visit Report

Site Photos

Viewing Direction: West



Descriptive Photo - 1
Viewing Direction: West
Date: Sample area for BH22-01 through BH22-02
Created: 2/10/2022 9:32:20 AM
Lat: 32.310882, Long: -104.077371

Sample area for BH22-01 through BH22-02

Viewing Direction: Southwest



Descriptive Photo - 10
Viewing Direction: Southwest
Date: Sample area for BH22-12 through BH22-14
Created: 2/10/2022 9:37:51 AM
Lat: 32.310882, Long: -104.077371

Sample area for BH22-12 through BH22-14

Viewing Direction: South



Descriptive Photo - 3
Viewing Direction: South
Date: Sample area for BH22-03
Created: 2/10/2022 9:32:20 AM
Lat: 32.310882, Long: -104.077371

Sample area for BH22-03

Viewing Direction: East

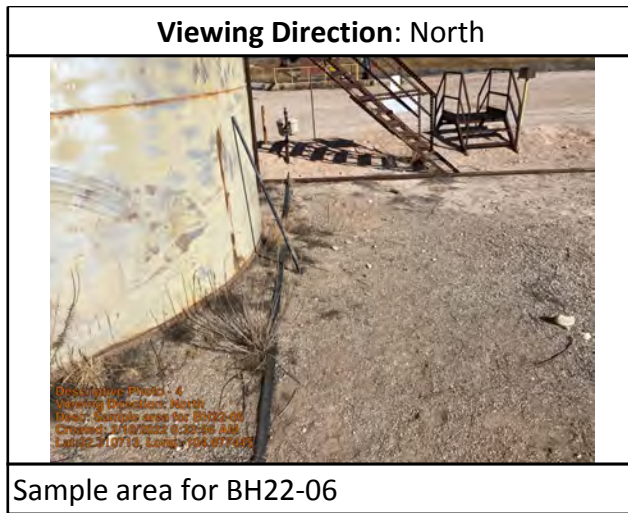


Descriptive Photo - 3
Viewing Direction: East
Date: Sample area for BH22-04 through BH22-05
Created: 2/10/2022 9:33:20 AM
Lat: 32.310882, Long: -104.077371

Sample area for BH22-04 through BH22-05



Daily Site Visit Report



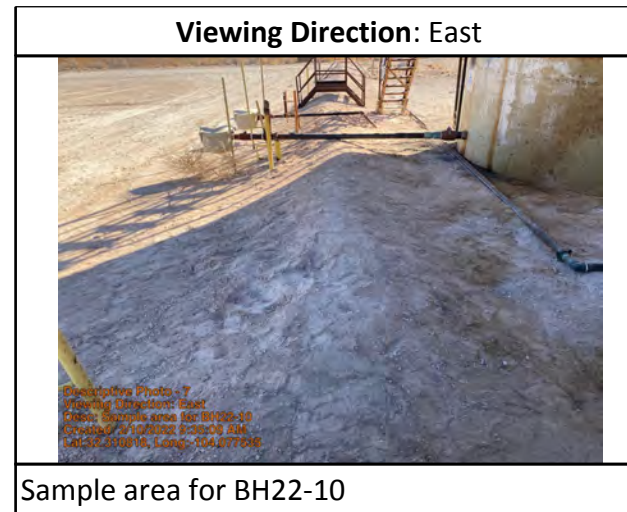
Sample area for BH22-06



Sample area for BH22-07



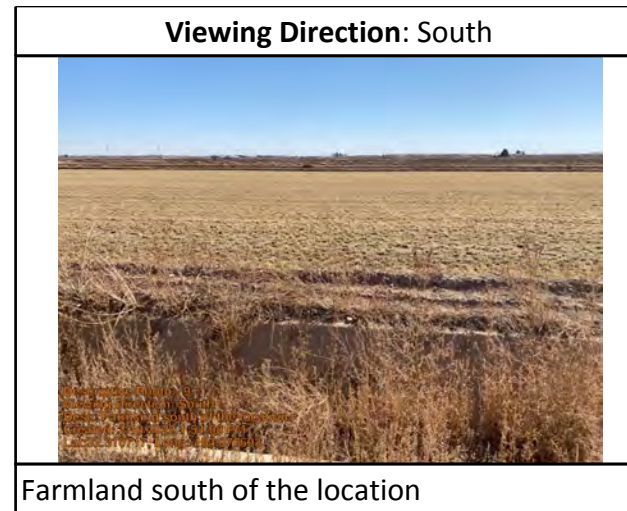
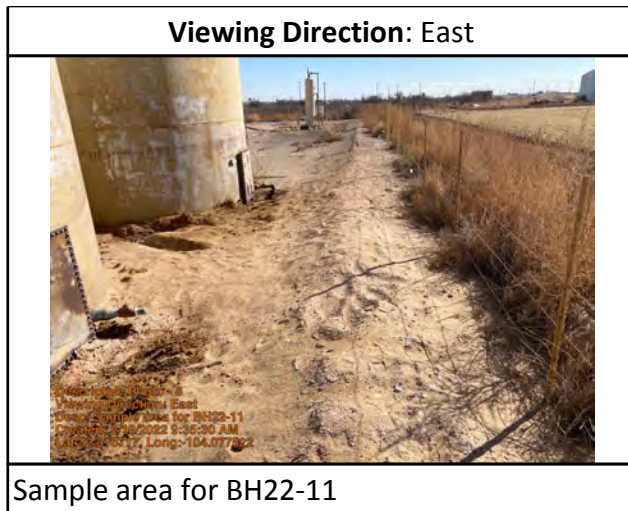
Sample area for BH22-08 through BH22-09



Sample area for BH22-10



Daily Site Visit Report



Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

A handwritten signature consisting of the letters 'C' and 'D' in a cursive, looped style.

Signature



Daily Site Visit Report

Client:	<u>BTA Oil Producers LLC</u>	Inspection Date:	<u>2/11/2022</u>
Site Location Name:	<u>Nymeyer A#1 Tank Battery</u>	Report Run Date:	<u>2/11/2022 9:19 PM</u>
Client Contact Name:	<u>Bob Hall</u>	API #:	<u></u>
Client Contact Phone #:	<u>432-312-2203</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>2/11/2022 10:25 AM</u>
Departed Site	<u>2/11/2022 1:00 PM</u>

Field Notes

- 10:31** Arrived on site to finish horizontal delineation.
- 11:40** Collected BH22-15 through BH22-16 and BG22-02 at surface and 1' south of the pad. All hit refusal at 1'
- 11:41** BG22-02 ran hot on chlorides. Sending to lab for analysis.
- 11:41** BH22-15 and BH22-16 were under strictest criteria on all field screening.

Next Steps & Recommendations

1



Daily Site Visit Report

Site Photos

Viewing Direction: North



Viewing Direction: North
Sample area for BH22-15
Created: 2/11/2022 9:14:28 AM
Lat: 31.0884, Long: -104.077485

Sample area for BH22-15

Viewing Direction: North



Viewing Direction: North
Sample area for BH22-16
Created: 2/11/2022 9:14:28 AM
Lat: 31.0884, Long: -104.077485

Sample area for BH22-16

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature: 
Signature



Daily Site Visit Report

Client:	<u>BTA Oil Producers LLC</u>	Inspection Date:	<u>2/15/2022</u>
Site Location Name:	<u>Nymeyer A#1 Tank Battery</u>	Report Run Date:	<u>2/15/2022 10:07 PM</u>
Client Contact Name:	<u>Bob Hall</u>	API #:	<u></u>
Client Contact Phone #:	<u>432-312-2203</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>2/15/2022 7:20 AM</u>
Departed Site	<u>2/15/2022 2:00 PM</u>

Field Notes

- 7:36** Arrived on site to continue vertical delineation.
- 7:58** Collecting BH22-01, BH22-05, BH22-08 through BH22-11 to vertically delineate.
- 11:08** BH22-08 hit refusal at 6.5'
- 11:12** BH22-07 is at refusal because it's is between the two tanks. Not enough room for the backhoe to get in there. BH22-10 will be used for vertical delineation for BH22-07
- 12:23** BH22-01 is all clean at 4'
 BH22-05 is all clean at 4'
 BH22-08 is right at strictest criteria for chlorides at 6.5'. Sending to lab for analysis.
 BH22-09 is all clean at 8'
 BH22-10 is all clean at 2'
 BH22-11 is all clean at 2'
- 12:59** Field screening for vertical delineation is complete. Sending samples that at the depths at which they cleaned up to lab for analysis.

Next Steps & Recommendations

Daily Site Visit Report



- 1 Send bottom samples to lab for analysis and write work plan.



Daily Site Visit Report

Site Photos

Viewing Direction: West



Descriptive Photo - 4
Viewing Direction: West
Sample Area for BH22-05
Created: 2/15/2022 8:11 AM
User: 31077594, User ID: 104 077594

Sample area for BH22-05

Viewing Direction: East



Descriptive Photo - 4
Viewing Direction: East
Sample Area for BH22-11
Created: 2/15/2022 8:11 AM
User: 31077594, User ID: 104 077594

Sample area for BH22-11

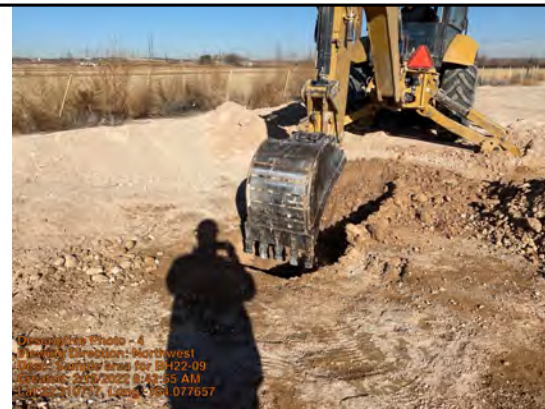
Viewing Direction: Northwest



Descriptive Photo - 4
Viewing Direction: Northwest
Sample Area for BH22-08
Created: 2/15/2022 8:11 AM
User: 31077594, User ID: 104 077594

Sample area for BH22-08

Viewing Direction: Northwest



Descriptive Photo - 4
Viewing Direction: Northwest
Sample Area for BH22-09
Created: 2/15/2022 8:11 AM
User: 31077594, User ID: 104 077594

Sample area for BH22-09



Daily Site Visit Report

Viewing Direction: Northwest

Description: Photo - 5
Viewing Direction: Northwest
Desc: Sample area for BH22-01
Created: 2/15/2022 9:09:16 AM
Lat: 32.310776, Long: -104.077468

Sample area for BH22-01

Viewing Direction: South

Description: Photo - 7
Viewing Direction: South
Desc: Sample area for BH22-07
Created: 2/15/2022 11:11:34 AM
Lat: 32.310761, Long: -104.077468

Sample area for BH22-07

Viewing Direction: Southwest

Description: Photo - 7
Viewing Direction: Southwest
Desc: Sample area for BH22-10
Created: 2/15/2022 10:46:26 PM
Lat: 32.310867, Long: -104.077463

Sample area for BH22-10

Viewing Direction: Northwest

Description: Photo - 7
Viewing Direction: Northwest
Desc: Berm is built back up to keep contaminants from migrating out
Created: 2/15/2022 10:46:26 PM
Lat: 32.310867, Long: -104.077463

Berm is built back up to keep contaminants from migrating out

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature: 
Signature



Daily Site Visit Report

Client:	<u>BTA Oil Producers LLC</u>	Inspection Date:	<u>3/9/2022</u>
Site Location Name:	<u>Nymeyer A#1 Tank Battery</u>	Report Run Date:	<u>3/9/2022 9:52 PM</u>
Client Contact Name:	<u>Bob Hall</u>	API #:	<u></u>
Client Contact Phone #:	<u>432-312-2203</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>3/9/2022 7:20 AM</u>
Departed Site	<u>3/9/2022 2:30 PM</u>

Field Notes

- 7:45** Arrived on site to complete delineation.
- 9:18** Began digging and hit electric line that goes from disconnect to pumping unit. Blew fuses in the disconnect and shut off pumping unit.
- 12:19** Collecting BH22-17 through BH22-20 at 0' and 2'. Clean on all field screening.
- 12:56** Collecting BH22-06 at 2', BH22-07 at 2', BH22-01 at 6', and BH22-08 at 8'. Clean on all field screening.

Next Steps & Recommendations

- 1 Send samples to lab for analysis and complete work plan



Daily Site Visit Report

Site Photos

Viewing Direction: Southeast



Descriptive Photo - 1
Viewing Direction: Southeast
Desc: Electric line that was struck
Created: 3/9/2022 9:17:07 AM
Lat:32.310983, Long:-104.077504

Electric line that was struck

Viewing Direction: Southwest



Descriptive Photo - 2
Viewing Direction: Southwest
Desc: Electric line that was struck
Created: 3/9/2022 9:17:40 AM
Lat:32.310899, Long:-104.077616

Electric line that was struck

Viewing Direction: Northeast



Descriptive Photo - 3
Viewing Direction: Northeast
Desc: Electric line that was struck
Created: 3/9/2022 9:18:06 AM
Lat:32.310910, Long:-104.077604

Electric line that was struck

Viewing Direction: Southwest

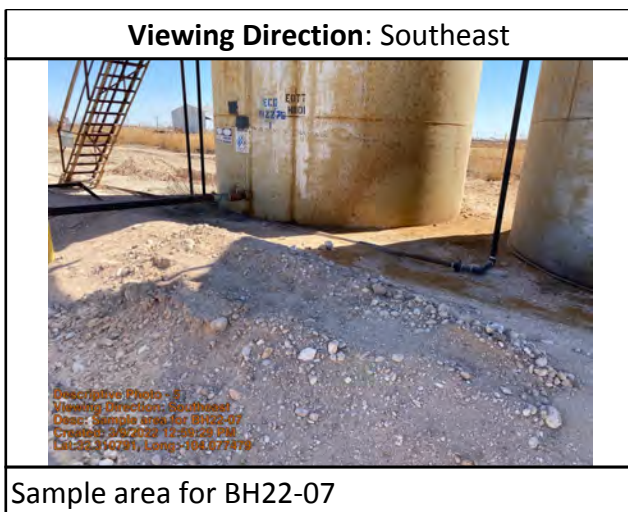


Descriptive Photo - 4
Viewing Direction: Southwest
Desc: Sample area for BH22-01
Created: 3/9/2022 12:59:03 PM
Lat:32.310919, Long:-104.077639

Sample area for BH22-01



Daily Site Visit Report



Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

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

Signature



Daily Site Visit Report

Client:	<u>BTA Oil Producers LLC</u>	Inspection Date:	<u>3/24/2022</u>
Site Location Name:	<u>Nymeyer A#1 Tank Battery</u>	Report Run Date:	<u>3/24/2022 9:59 PM</u>
Client Contact Name:	<u>Bob Hall</u>	API #:	<u></u>
Client Contact Phone #:	<u>432-312-2203</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>3/24/2022 1:30 PM</u>
Departed Site	<u>3/24/2022 3:15 PM</u>

Field Notes

- 13:39** Arrived on site to begin remediation for oil release.
- 13:40** Excavation has begun on west side of the tanks this morning. Hard and rocky material is difficult to bust through.
- 15:06** Excavation is fairly hard in the middle of the containment. TCB is going to attempt to get a trackhoe for tomorrow.

Next Steps & Recommendations

- 1 Come out with a trackhoe as soon as TCB can get one



Daily Site Visit Report

Site Photos

Viewing Direction: Southeast



Descriptive Photo - 1
Viewing Direction: Southeast
Desc: Excavation
Created: 3/24/2022 3:06:18 PM
Lat:32.310750, Long:-104.077712

Excavation

Viewing Direction: Northeast



Descriptive Photo - 2
Viewing Direction: Northeast
Desc: Excavation
Created: 3/24/2022 3:06:38 PM
Lat:32.310702, Long:-104.077697

Excavation

Viewing Direction: Northwest



Descriptive Photo - 3
Viewing Direction: Northwest
Desc: Excavation
Created: 3/24/2022 3:06:58 PM
Lat:32.310703, Long:-104.077568

Excavation

Viewing Direction: Southwest



Descriptive Photo - 4
Viewing Direction: Southwest
Desc: Excavation
Created: 3/24/2022 3:07:28 PM
Lat:32.310705, Long:-104.077500

Excavation

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

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

Signature



Daily Site Visit Report

Client:	<u>BTA Oil Producers LLC</u>	Inspection Date:	<u>3/25/2022</u>
Site Location Name:	<u>Nymeyer A#1 Tank Battery</u>	Report Run Date:	<u>3/25/2022 9:25 PM</u>
Client Contact Name:	<u>Bob Hall</u>	API #:	<u></u>
Client Contact Phone #:	<u>432-312-2203</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>3/25/2022 8:20 AM</u>
Departed Site	<u>3/25/2022 2:45 PM</u>

Field Notes

- 8:26** On site to continue excavation.
- 14:03** Two belly dumps hauling contaminants to LeaLand. 120 yards hauled out so far
- 12:21** Operator is still working to bust out the middle of the excavation in the containment area
- 12:38** The backhoe has a leak. TCB is getting a mechanic out to fix it. They are working on getting a hammer attachment to bust through the rock next week.
- 13:13** Mechanic got the backhoe fixed. Continuing work.

Next Steps & Recommendations

- 1** Continue excavation next week.



Daily Site Visit Report

Site Photos

Viewing Direction: Northwest



Descriptive Photo - 2
Viewing Direction: Northwest
Desc: Excavator working on the middle part of the excavation out slowly. Hard rocky material. Lots of river rock
Created: 3/25/2022 8:55:48 AM
Latitude: 33.0743, Longitude: -104.077559

Digging middle part of the excavation out slowly. Hard rocky material. Lots of river rock

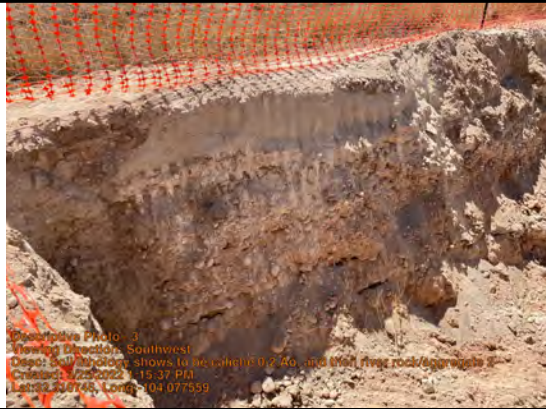
Viewing Direction: Southwest



Descriptive Photo - 3
Viewing Direction: Southwest
Desc: Excavator working on the middle part of the excavation out slowly. Hard rocky material. Lots of river rock
Created: 3/25/2022 9:15:37 PM
Latitude: 33.0743, Longitude: -104.077559

Excavation

Viewing Direction: Southwest



Descriptive Photo - 3
Viewing Direction: Southwest
Desc: Soil lithology shows to be caliche 0-2', and then river rock/aggregate 2-8'
Created: 3/25/2022 9:15:37 PM
Latitude: 33.0743, Longitude: -104.077559

Soil lithology shows to be caliche 0-2', and then river rock/aggregate 2-8'

Viewing Direction: East



Descriptive Photo - 4
Viewing Direction: East
Desc: Excavation being extended to the north end of the containment
Created: 3/25/2022 9:25:50 PM
Latitude: 33.0743, Longitude: -104.077559

Excavation being extended to the north end of the containment

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

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

Signature



Daily Site Visit Report

Client:	<u>BTA Oil Producers LLC</u>	Inspection Date:	<u>3/28/2022</u>
Site Location Name:	<u>Nymeyer A#1 Tank Battery</u>	Report Run Date:	<u>3/28/2022 8:15 PM</u>
Client Contact Name:	<u>Bob Hall</u>	API #:	<u></u>
Client Contact Phone #:	<u>432-312-2203</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>3/28/2022 7:40 AM</u>
Departed Site	<u>3/28/2022 1:15 PM</u>

Field Notes

- 8:26** Arrived on site to continue excavation and begin confirmation sampling.
- 13:13** Material is too hard for the backhoe to dig. Another leak is on the hose
- 13:14** TCB is getting a trackhoe with a hammer attachment to location tomorrow to bust through the rock

Next Steps & Recommendations

- 1** Continue excavation with the jackhammer tomorrow

Daily Site Visit Report



Site Photos

Viewing Direction: West



Descriptive Photo
Viewing Direction: West
Desc: Excavation still on west end of containment
Created: 3/28/2022 8:26:30 AM
Lid: 32-210291-Comp-104 077551

Excavation still on west end of containment.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

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

Signature



Daily Site Visit Report

Client:	<u>BTA Oil Producers LLC</u>	Inspection Date:	<u>3/29/2022</u>
Site Location Name:	<u>Nymeyer A#1 Tank Battery</u>	Report Run Date:	<u>3/30/2022 3:05 PM</u>
Client Contact Name:	<u>Bob Hall</u>	API #:	<u></u>
Client Contact Phone #:	<u>432-312-2203</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>3/29/2022 7:30 AM</u>
Departed Site	<u>3/29/2022 3:00 PM</u>

Field Notes

- 8:08** Trackhoe with jackhammer attachment is on site to try to break up the hard river rock in the excavation.
- 10:42** Jackhammer is able to break up material down to 8'. Working to get all of the excavation down to that depth.
- 13:12** Collected WES22-01 at 4', WES22-02 through WES22-03 at 2' and 4', and BES22-01 through BES22-02 at 8'. All are clean on all field screening.
- 13:12** TCB's backhoe broke a belt.
- 14:10** Backhoe won't be able to dig anymore today. TCB will try to get it fixed tomorrow or try to get a bucket attachment for the trackhoe to dig with it.

Next Steps & Recommendations

- 1** Continue excavation tomorrow.



Daily Site Visit Report

Site Photos

Viewing Direction: Southwest



Descriptive Photo - 1
Viewing Direction: Southwest
Desc: Jackhammer breaking the hard material on the bottom of the excavation.
Created: 3/29/2022 8:31:40 AM
Lat:32.310776, Long:-104.077551

Jackhammer breaking the hard material on the bottom of the excavation.

Viewing Direction: Southwest



Descriptive Photo - 2
Viewing Direction: Southwest
Desc: Excavation down to 8'.
Created: 3/29/2022 10:42:39 AM
Lat:32.310754, Long:-104.077551

Excavation down to 8'

Viewing Direction: Southwest



Descriptive Photo - 3
Viewing Direction: Southwest
Desc: Sample area for WES22-01
Created: 3/29/2022 1:34:11 PM
Lat:32.310724, Long:-104.077551

Sample area for WES22-01

Viewing Direction: West



Descriptive Photo - 4
Viewing Direction: West
Desc: Sample area for WES22-02
Created: 3/29/2022 1:37:07 PM
Lat:32.310724, Long:-104.077551

Sample area for WES22-02



Daily Site Visit Report



Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature: 
Signature



Daily Site Visit Report

Client:	<u>BTA Oil Producers LLC</u>	Inspection Date:	<u>3/30/2022</u>
Site Location Name:	<u>Nymeyer A#1 Tank Battery</u>	Report Run Date:	<u>3/30/2022 10:17 PM</u>
Client Contact Name:	<u>Bob Hall</u>	API #:	<u></u>
Client Contact Phone #:	<u>432-312-2203</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>3/30/2022 8:10 AM</u>
Departed Site	<u>3/30/2022 3:35 PM</u>

Field Notes

- 10:02** On site to continue remediation. TCB is working to hand spot the electric line near the excavation.
- 14:02** One belly dump is hauling. 40 yards hauled off so far
- 14:03** Excavation is into the pad area north of the containment now. We are now working on circling it back toward the tanks. The material is still fairly hard to break through with the equipment. Excavation is still slow but progress is speeding up a bit.
- 15:23** Collected WES22-04 and BES22-03 through BES22-04. All are clean on all field screening.

Next Steps & Recommendations

- 1** Continue remediation tomorrow.



Daily Site Visit Report

Site Photos

Viewing Direction: Northwest



Description Photo - 1
Viewing Direction: Northwest
Desc: Electric line exposed to dig across it
Created: 3/30/2022 11:17:46 AM
Lat:32.310790, Long: -104.077863

Electric line exposed to dig across it

Viewing Direction: South



Description Photo - 2
Viewing Direction: South
Desc: Electric line
Created: 3/30/2022 11:17:46 AM
Lat:32.310790, Long: -104.077872

Electric line

Viewing Direction: Southwest



Description Photo - 3
Viewing Direction: Southwest
Desc: Sample Area for WES22-04
Created: 3/30/2022 11:17:46 AM
Lat:32.310790, Long: -104.077863

Sample area for WES22-04

Viewing Direction: East



Description Photo - 4
Viewing Direction: East
Desc: Sample Area for BES22-03 through BES22-04
Created: 3/30/2022 3:03:27 PM
Lat:32.310822, Long: -104.077854

Sample area for BES22-03 through BES22-04



Daily Site Visit Report

Viewing Direction: Northeast
 <p><small>Descriptive Photo - 8 Viewing Direction: Northeast Desc: Excavation out to the pad area Created: 3/30/2022 3:25:57 PM Lat:32.316775, Long:-104.077677</small></p>
Excavation out to the pad area

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature: 
Signature



Daily Site Visit Report

Client:	<u>BTA Oil Producers LLC</u>	Inspection Date:	<u>3/31/2022</u>
Site Location Name:	<u>Nymeyer A#1 Tank Battery</u>	Report Run Date:	<u>3/31/2022 10:23 PM</u>
Client Contact Name:	<u>Bob Hall</u>	API #:	<u></u>
Client Contact Phone #:	<u>432-312-2203</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>3/31/2022 9:10 AM</u>
Departed Site	<u>3/31/2022 3:50 PM</u>

Field Notes

- 9:11** Arrived on site to continue remediation.
- 9:14** Hand excavation has begun around the tanks.
- 14:08** Four trucks hauling. 300 yards hauled off so far
- 12:50** We excavated as much material as possible with the trackhoe before it is removed and the mini excavator is brought in. We are excavating around the tank approximately 2' from it to avoid disturbing the structural integrity of it.
- 14:04** Collected WES22-05 through WES22-06 and BES22-05 in the pad area. All are clean on all field screening.
- 14:37** Collected WES22-07. Clean on all field screening.

Next Steps & Recommendations

- 1** Continue remediation tomorrow.



Daily Site Visit Report

Site Photos

Viewing Direction: Southwest



Descriptive Photo - 1
Viewing Direction: Southwest
Desc: Hand excavating around the tanks.
Created: 3/31/2022 9:18:46 AM
Lat: 32.310877, Long: -104.077458

Hand excavating around the tanks.

Viewing Direction: West



Descriptive Photo - 2
Viewing Direction: West
Desc: Excavating on south side of tanks.
Created: 3/31/2022 11:09:04 AM
Lat: 32.310888, Long: -104.077458

Excavating on south side of tanks.

Viewing Direction: Southeast



Descriptive Photo - 3
Viewing Direction: Southeast
Desc: Sample area for BES22-05
Created: 3/31/2022 2:30:18 PM
Lat: 32.310906, Long: -104.077458

Sample area for BES22-05

Viewing Direction: Northwest



Descriptive Photo - 4
Viewing Direction: Northwest
Desc: Sample area for WES22-05
Created: 3/31/2022 2:30:17 PM
Lat: 32.310906, Long: -104.077458

Sample area for WES22-05



Daily Site Visit Report

Viewing Direction: Northeast



Descriptive Photo: 5
Viewing Direction: Northeast
Open Sample area for WES22-06
Created: 3/31/2022 2:36:43 PM
Lat:32.310466, Long:-104.077603

Sample area for WES22-06

Viewing Direction: Northeast



Descriptive Photo: 6
Viewing Direction: Northeast
Open Sample area for WES22-07
Created: 3/31/2022 2:36:34 PM
Lat:32.310447, Long:-104.077603

Sample area for WES22-07

Viewing Direction: West



Descriptive Photo: 7
Viewing Direction: West
Open Area to be excavated tomorrow
Created: 3/31/2022 3:18:50 PM
Lat:32.310471, Long:-104.077418

Area to be excavated tomorrow

Viewing Direction: Northwest



Descriptive Photo: 8
Viewing Direction: Northwest
Note: Excavation north of the tanks
Created: 3/31/2022 3:17:15 PM
Lat:32.310771, Long:-104.077448

Excavation north of the tanks

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature: 
Signature



Daily Site Visit Report

Client:	<u>BTA Oil Producers LLC</u>	Inspection Date:	<u>4/1/2022</u>
Site Location Name:	<u>Nymeyer A#1 Tank Battery</u>	Report Run Date:	<u>4/2/2022 4:26 PM</u>
Client Contact Name:	<u>Bob Hall</u>	API #:	<u></u>
Client Contact Phone #:	<u>432-312-2203</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>4/1/2022 8:05 AM</u>
Departed Site	<u>4/1/2022 4:41 PM</u>

Field Notes

- 9:56** Arrived on site to continue remediation around the tanks and confirmation sample.
- 9:56** TCB has three extra guys on site to help hand dig.
- 10:25** Collecting WES22-08 through WES22-10 at 3' and 6' in the 8' excavation to keep up with the square footage.
- 10:25** WES22-08 through WES22-10 are all clean on all field screening. All that is left is getting all of the tank area down to 2'

Next Steps & Recommendations

- 1** Continue hand excavation on Monday.



Daily Site Visit Report

Site Photos

Viewing Direction: Southeast



Sample area for WES22-08

Viewing Direction: Southwest



Sample area for WES22-09

Viewing Direction: Northwest



Sample area for WES22-10

Viewing Direction: Southwest



Mini excavator on site to help dig around the tanks.



Daily Site Visit Report

Viewing Direction: Southwest



Descriptive Photo - 4
Viewing Direction: Southwest
Desc: Excavation on east side of tanks.
Created: 4/1/2022 1:41:16 PM
Lat: 32.910761, Long: -104.077438

Excavation on east side of tanks.

Viewing Direction: West



Descriptive Photo - 5
Viewing Direction: West
Desc: Area left to be excavated.
Created: 4/1/2022 1:42:23 PM
Lat: 32.910724, Long: -104.077388

Area left to be excavated.

Viewing Direction: South



Descriptive Photo - 6
Viewing Direction: South
Desc: 8' excavation is fenced off
Created: 4/1/2022 1:43:11 PM
Lat: 32.910724, Long: -104.077388

8' excavation is fenced off

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

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

Signature



Daily Site Visit Report

Client:	<u>BTA Oil Producers LLC</u>	Inspection Date:	<u>4/4/2022</u>
Site Location Name:	<u>Nymeyer A#1 Tank Battery</u>	Report Run Date:	<u>4/4/2022 9:52 PM</u>
Client Contact Name:	<u>Bob Hall</u>	API #:	<u></u>
Client Contact Phone #:	<u>432-312-2203</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>4/4/2022 1:05 PM</u>
Departed Site	<u>4/4/2022 3:10 PM</u>

Field Notes

- 13:41** On site to continue excavation around the tanks.
- 13:46** Approximately 140 yards have been hauled off. Bringing the total to 640.
- 14:59** TCB still working hard to bust through the hard rock around the tanks. We are nearing the end but we will likely have to come back to finish tomorrow. Confirmation sampling will also be complete tomorrow.

Next Steps & Recommendations

- 1 Complete excavation and confirmation tomorrow.



Daily Site Visit Report

Site Photos

Viewing Direction: East



Descriptive Photo - 1
Viewing Direction: East
Date: Excavation around the tanks.
Created: 4/4/2022 1:47:24 PM
Lat:32.310754, Long:-104.077838

Excavation around the tanks.

Viewing Direction: North



Descriptive Photo - 2
Viewing Direction: North
Date: Excavation around the tanks.
Created: 4/4/2022 1:47:45 PM
Lat:32.310757, Long:-104.077451

Excavation around the tanks.

Viewing Direction: Southwest



Descriptive Photo - 3
Viewing Direction: Southwest
Date: Excavation around the tanks.
Created: 4/4/2022 2:59:05 PM
Lat:32.310758, Long:-104.077808

Excavation around the tanks.

Viewing Direction: South



Descriptive Photo - 4
Viewing Direction: South
Date: North side of tanks still needing to be touched up and cleaned out.
Created: 4/4/2022 3:00:07 PM
Lat:32.310888, Long:-104.077438

North side of tanks still needing to be touched up and cleaned out.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

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

Signature



Daily Site Visit Report

Client:	<u>BTA Oil Producers LLC</u>	Inspection Date:	<u>4/14/2022</u>
Site Location Name:	<u>Nymeyer A#1 Tank Battery</u>	Report Run Date:	<u>4/21/2022 9:10 PM</u>
Client Contact Name:	<u>Bob Hall</u>	API #:	<u></u>
Client Contact Phone #:	<u>432-312-2203</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>4/14/2022 7:25 AM</u>
Departed Site	<u>4/14/2022 8:55 AM</u>

Field Notes

- 7:26** On site to collect and field screen additional samples to keep up with 200ft square footage rule.
- 7:53** Collecting BES22-10 through BES22-12 and WES22-14 through WES22-15

Next Steps & Recommendations

1



Daily Site Visit Report

Site Photos

Viewing Direction: West



Descriptive Photo:
Viewing Direction: West
Date: Sample area for BES22-11 through BES22-12
Created: 4/14/2022 7:34:42 AM
Lat: 31.0296 Long: -104.073713

Sample area for BES22-11 through BES22-12

Viewing Direction: Northeast



Descriptive Photo:
Viewing Direction: Northeast
Date: Sample area for WES22-14 through WES22-15
Created: 4/14/2022 7:34:42 AM
Lat: 31.0296 Long: -104.073713

Sample area for WES22-14 through WES22-15

Viewing Direction: East



Descriptive Photo:
Viewing Direction: East
Date: Sample area for BES22-10
Created: 4/14/2022 7:34:42 AM
Lat: 31.0296 Long: -104.073713

Sample area for BES22-10

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

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

Signature



Daily Site Visit Report

Client:	<u>BTA Oil Producers LLC</u>	Inspection Date:	<u>4/20/2022</u>
Site Location Name:	<u>Nymeyer A#1 Tank Battery</u>	Report Run Date:	<u>4/21/2022 3:42 PM</u>
Client Contact Name:	<u>Bob Hall</u>	API #:	<u></u>
Client Contact Phone #:	<u>432-312-2203</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>4/20/2022 8:25 AM</u>
Departed Site	<u>4/20/2022 4:31 PM</u>

Field Notes

- 8:28** Arrived on site to continue remediation.
- 10:04** Currently excavating the south side of the containment by the tanks down to 4'
- 15:31** Approximately 60 yards have been hauled off so far
- 14:11** Collected WES22-16 through WES22-18 at 3' and 6'. All clean on all field screening.
Collected WES22-19 at 2' and BES22-08 at 4'. All clean on all field screening.
- 16:08** Collected WES22-20 through WES22-21 and BES22-06 through BES22-09 at 4'. All clean on all field screening.

Next Steps & Recommendations

- 1** Haul the rest of the contaminants off tomorrow.



Daily Site Visit Report

Site Photos

Viewing Direction: Southwest



Descriptive Photo - 1
Viewing Direction: Southwest
Desc: Excavation down to 4'
Created: 4/20/2022 10:04:30 AM
Lat:32.339886, Long:-104.077682

Excavation down to 4'

Viewing Direction: Southwest



Descriptive Photo - 2
Viewing Direction: Southwest
Desc: WES22-01 and WES22-09 have been excavated out two feet
Created: 4/20/2022 12:19:05 PM
Lat:32.319261, Long:-104.077618

WES22-01 and WES22-09 have been excavated out two feet

Viewing Direction: Southeast



Descriptive Photo - 3
Viewing Direction: Southeast
Desc: WES22-03 and WES22-08 have been excavated out two feet
Created: 4/20/2022 12:11:23 PM
Lat:32.310782, Long:-104.077692

WES22-03 and WES22-08 have been excavated out two feet

Viewing Direction: Southwest



Descriptive Photo - 4
Viewing Direction: Southwest
Desc: WES22-02 and WES22-10 have been excavated out two feet
Created: 4/20/2022 12:11:23 PM
Lat:32.310781, Long:-104.077691

WES22-02 and WES22-10 have been excavated out two feet



Daily Site Visit Report

Viewing Direction: Southeast

Description: Photo - 5
Viewing Direction: Southeast
Date: 4/20/2022 11:46:27 AM
Created: 4/20/2022 11:46:27 AM
Lat:32.310785 Long: -104.077426

WES22-13 has been excavated out two feet and BES22-08 has been excavated down two feet

Viewing Direction: Southeast

Description: Photo - 6
Viewing Direction: Southeast
Date: Sample area for WES22-21 and BES22-06
Created: 4/20/2022 3:09:34 PM
Lat:32.310785 Long: -104.077426

Sample area for WES22-21 and BES22-06

Viewing Direction: Southwest

Description: Photo - 7
Viewing Direction: Southwest
Date: Sample area for WES22-19 through WES22-20 and BES22-07 through BES22-08
Created: 4/20/2022 4:18:35 PM
Lat:32.310785 Long: -104.077426

Sample area for WES22-19 through WES22-20 and BES22-07 through BES22-08

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

A handwritten signature in black ink, appearing to be the initials 'CD' enclosed in a loop.

Signature



Daily Site Visit Report

Client:	<u>BTA Oil Producers LLC</u>	Inspection Date:	<u>4/25/2022</u>
Site Location Name:	<u>Nymeyer A#1 Tank Battery</u>	Report Run Date:	<u>4/26/2022 12:19 AM</u>
Client Contact Name:	<u>Bob Hall</u>	API #:	<u></u>
Client Contact Phone #:	<u>432-312-2203</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>4/25/2022 7:45 AM</u>
Departed Site	<u>4/25/2022 5:36 PM</u>

Field Notes

- 17:32** 2' Caliche backfill on Northside of Tank Battery completed.
- 17:30** 8' Excavation on West side of Tank Battery completely filled with Top Soil and partially topped off with Caliche
- 17:32** 4' excavation on South side of Tank Battery partially filled with Top Soil.
- 17:33** LD Construction brought on site one tanker of water and spread on caliche and top soil for packing purposes
- 17:36** Total Caliche used: 9 loads @ 20 yards for a total of 180 yards
Total Top Soil used: 17 loads @ 20 yards for a total of 340 yards

Next Steps & Recommendations

- 1 Continue with Backfill until complete.



Daily Site Visit Report

Site Photos

Viewing Direction: Southwest



Descriptive Photo - 1
Viewing Direction: Southwest
Desc: Tank Battery Excavation Site
Created: 4/25/2022 7:46:35 AM
Lat:32.310960, Long:-104.077386

Tank Battery Excavation Site

Viewing Direction: Northwest



Descriptive Photo - 10
Viewing Direction: Northwest
Desc: Top Soil Load #2
Created: 4/25/2022 11:33:56 AM
Lat:32.310795, Long:-104.077114

Top Soil Load #2

Viewing Direction: Northwest



Descriptive Photo - 11
Viewing Direction: Northwest
Desc: Top Soil Load #6
Created: 4/25/2022 12:07:30 PM
Lat:32.310757, Long:-104.077065

Top Soil Load #6

Viewing Direction: Northwest



Descriptive Photo - 12
Viewing Direction: Northwest
Desc: Top Soil Load #8
Created: 4/25/2022 1:18:37 PM
Lat:32.310750, Long:-104.077077

Top Soil Load #8



Daily Site Visit Report

Viewing Direction: South



Descriptive Photo - 19
Viewing Direction: South
Desc: Backfill progress
Created: 4/25/2022 1:33:51 PM
Lat:32.310612, Long:-104.077641

Backfill progress

Viewing Direction: Northwest



Descriptive Photo - 14
Viewing Direction: Northwest
Desc: Top Soil Load #12
Created: 4/25/2022 7:58:13 PM
Lat:32.310755, Long:-104.077098

Top Soil Load #12

Viewing Direction: Northwest



Descriptive Photo - 15
Viewing Direction: Northwest
Desc: LD
Created: 4/25/2022 2:52:00 PM
Lat:32.310780, Long:-104.077105

LD Construction Tanker Truck dumping fresh water on Caliche for packing

Viewing Direction: Northwest

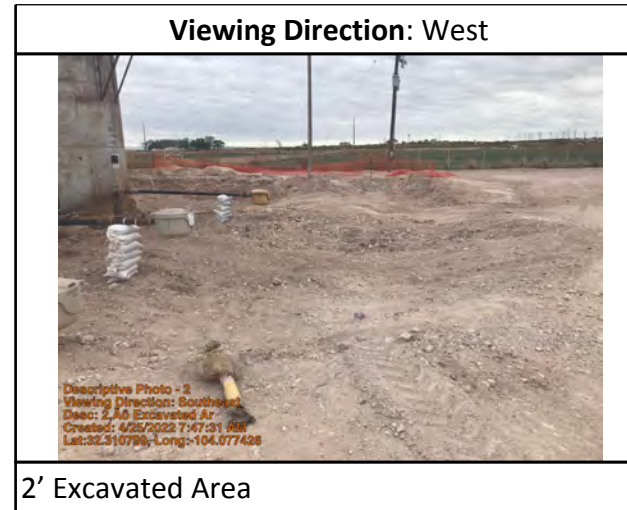
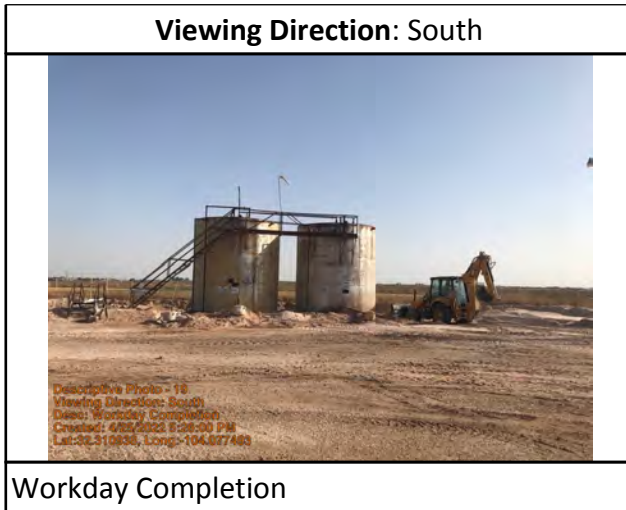


Descriptive Photo - 16
Viewing Direction: Northwest
Desc: S
Created: 4/25/2022 2:54:17 PM
Lat:32.310745, Long:-104.077084

LD Construction Tanker Truck dumping fresh water on Caliche for packing



Daily Site Visit Report





Daily Site Visit Report



Workday Completion



Caliche Load #2



Caliche Load #4



Caliche Load #5



Daily Site Visit Report



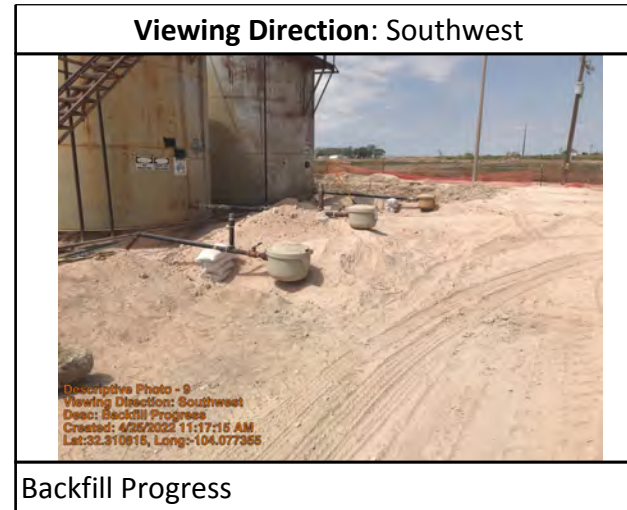
Backfill Progress



Backfill Progress



Caliche Load #7



Backfill Progress

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Jarod Florez

Signature:

A handwritten signature in black ink, appearing to read 'Jarod A. Florez', written over a thin horizontal line. The word 'Signature' is printed in small text below the line.



Daily Site Visit Report

Client:	<u>BTA Oil Producers LLC</u>	Inspection Date:	<u>4/26/2022</u>
Site Location Name:	<u>Nymeyer A#1 Tank Battery</u>	Report Run Date:	<u>4/26/2022 10:04 PM</u>
Client Contact Name:	<u>Bob Hall</u>	API #:	<u></u>
Client Contact Phone #:	<u>432-312-2203</u>		
Unique Project ID	<u></u>	Project Owner:	<u></u>
Project Reference #	<u></u>	Project Manager:	<u></u>

Summary of Times

Arrived at Site	<u>4/26/2022 7:45 AM</u>
Departed Site	<u>4/26/2022 3:30 PM</u>

Field Notes

- 7:51** Arrived on site to assess backfill
- 8:40** Began backfilling containment
- 11:44** Began backfilling around east tank by hand @~0900
- 13:02** Extra roustabout crew arrived on location to assist backfilling @~1215
- 14:31** Completed backfilling and started rebuilding berm
- 16:01** 180 yards hauled in 9 trucks

Next Steps & Recommendations

- 1** Complete closure report



Daily Site Visit Report

Site Photos

Viewing Direction: West



Descriptive Photo - 1
Viewing Direction: West
Date: Initial work prior to backfilling
Created: 4/26/2022 8:17:13 AM
Lat:32.819985, Long:-104.077352

Behind tanks prior to backfilling (south side of containment)

Viewing Direction: South



Descriptive Photo - 1
Viewing Direction: South
Date: Completed western berm
Created: 4/26/2022 3:26:58 PM
Lat:32.819813, Long:-104.077323

Completed western berm

Viewing Direction: South



Descriptive Photo - 2
Viewing Direction: South
Date: Containment during backfilling
Created: 4/26/2022 9:38:23 AM
Lat:32.819985, Long:-104.077311

West side of containment during backfilling

Viewing Direction: East

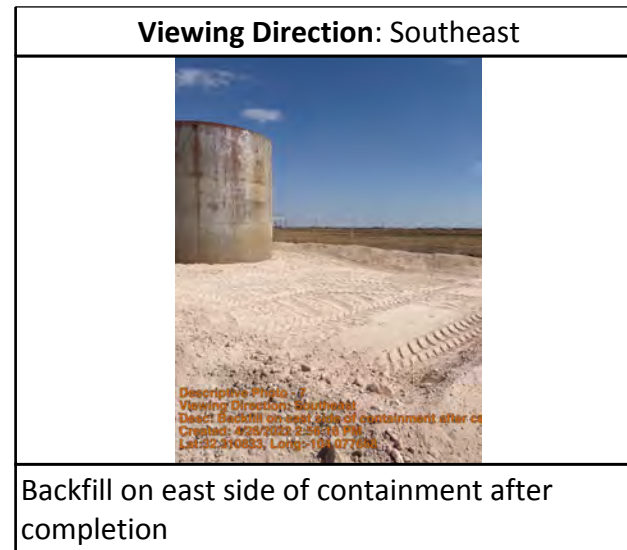
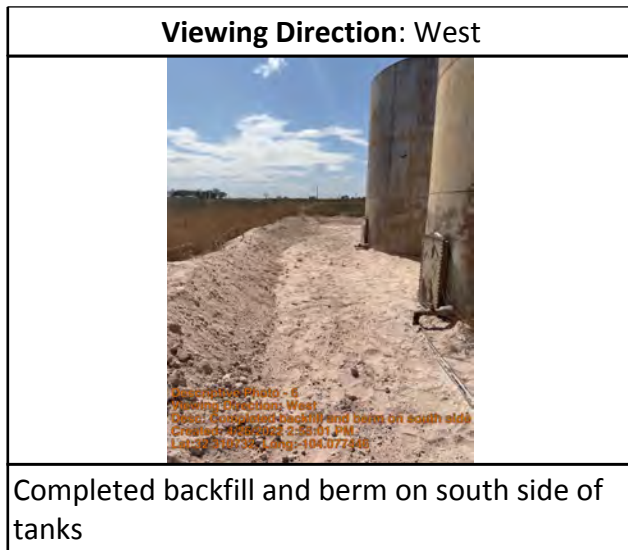
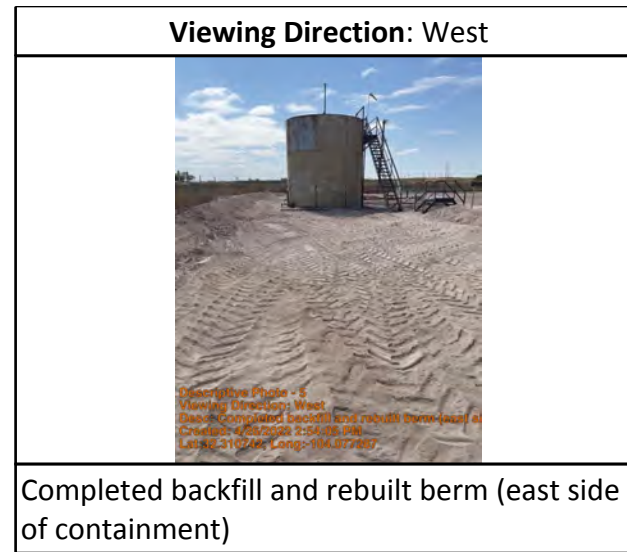
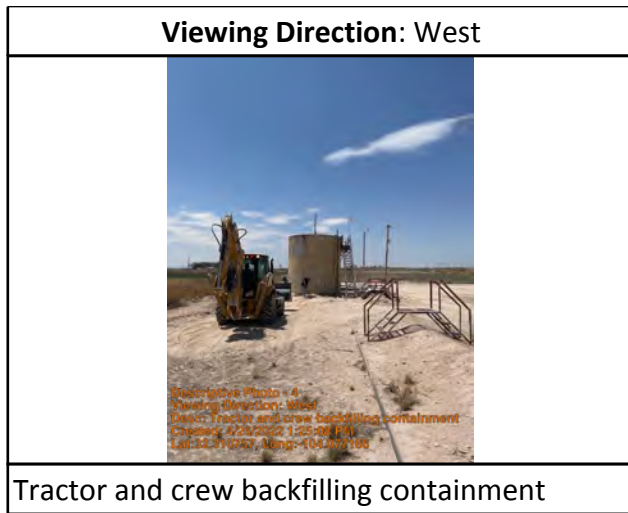


Descriptive Photo - 3
Viewing Direction: East
Date: West side of containment during backfilling
Created: 4/26/2022 9:44:33 AM
Lat:32.819971, Long:-104.077218

West side of containment during backfilling




Daily Site Visit Report






Daily Site Visit Report

Viewing Direction: West	
	
Completed north berm	

Descriptive Photo - 8
Viewing Direction: West
Desc: Completed north berm
Created: 4/26/2022 3:24:50 PM
Lat:32.318794, Long:-104.077586

Viewing Direction: East	
	
Completed north berm	

Descriptive Photo - 9
Viewing Direction: East
Desc: Completed north berm
Created: 4/26/2022 3:24:45 PM
Lat:32.310810, Long:-104.077586

Daily Site Visit Report



Daily Site Visit Signature

Inspector: McKitric Wier

Signature:

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

Signature

ATTACHMENT 5



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

BHall@btaoil.com, dwilliams@vertex.ca

4 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com>
To: EMNRD-OCD-District1spills <emnrd-ocd-district1spills@state.nm.us>

Thu, Mar 24, 2022 at 8:02 AM

Good morning,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted at Nymeyer A#1 Tank Battery for the following release:

nAPP2201957333

DOR: 1/18/2022

On Monday, March 28, 2022, at approximately 8:30 a.m., Chance Dixon will be on site to conduct confirmatory sampling and will be continuous until March 30, 2022. He can be reached at 575-988-1472. If you need directions to the site or have any concerns regarding this notification, please do not hesitate to contact him.

This will be completed on behalf of BTA Oil Producers.

Thank you,

Chance Dixon

Environmental Technician

Vertex Resource Services Inc.

3101 Boyd Drive,

Carlsbad, NM 88220

C 575.988.1472

Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Thu, Mar 24, 2022 at 11:38 AM

Cc: "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "Hensley, Chad, EMNRD" <Chad.Hensley@state.nm.us>, "Velez, Nelson, EMNRD" <Nelson.Velez@state.nm.us>, "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@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.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

811 S. First Street | Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Sent: Thursday, March 24, 2022 8:02 AM
To: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>
Subject: [EXTERNAL] BHall@btaoil.com, dwilliams@vertex.ca

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: EMNRD-OCD-District1spills <emnrd-ocd-district1spills@state.nm.us>

Thu, Mar 31, 2022 at 7:43 AM

Good morning,

Vertex respectfully requests that confirmation sampling for Nymeyer A#1 be extended to today, March 31, 2022, and be continuous to Monday, April 4, 2022.

Thank you,

Chance Dixon

Environmental Technician

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

C 575.988.1472

[Quoted text hidden]

Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Thu, Mar 31, 2022 at 9:16 AM

Cc: "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "Hensley, Chad, EMNRD" <Chad.Hensley@state.nm.us>, "Velez, Nelson, EMNRD" <Nelson.Velez@state.nm.us>, "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@state.nm.us>

Chance,

Please, continue with the confirmation sampling. 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.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

811 S. First Street | Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Sent: Thursday, March 31, 2022 7:43 AM
To: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>
Subject: [EXTERNAL] Re: BHall@btaoil.com, dwilliams@vertex.ca

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

Good morning,

[Quoted text hidden]

[Quoted text hidden]



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Nymeyer A #1 Tank Battery nAPP2201957333 Confirmation Sampling Notification

4 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Tue, Apr 12, 2022 at 8:08 AM

To: "Enviro, OCD, EMNRD" <OCD.Enviro@state.nm.us>

Cc: BHall@btaoil.com

Good morning,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted at Nymeyer A#1 Tank Battery for the following release:

nAPP2201957333

DOR: 1/18/2022

On Thursday, April 14, 2022, at approximately 8:30 a.m., Chance Dixon will be on site to conduct additional confirmatory sampling. He can be reached at 575-988-1472. If you need directions to the site or have any concerns regarding this notification, please do not hesitate to contact him.

This will be completed on behalf of BTA Oil Producers.

Thank you,

Chance Dixon

Environmental Technician

Vertex Resource Services Inc.

3101 Boyd Drive,

Carlsbad, NM 88220

C 575.988.1472**Dhugal Hanton** <vertexresourcegroupusa@gmail.com>

Tue, Apr 12, 2022 at 8:09 AM

To: cdixon@vertex.ca

[Quoted text hidden]

Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>

Tue, Apr 12, 2022 at 2:22 PM

To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Cc: Bob Hall <BHall@btaoil.com>, "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "Hensley, Chad, EMNRD" <Chad.Hensley@state.nm.us>, "Velez, Nelson, EMNRD" <Nelson.Velez@state.nm.us>, "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@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.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

811 S. First Street | Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Tuesday, April 12, 2022 8:12 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Subject: Fw: [EXTERNAL] Nymeyer A #1 Tank Battery nAPP2201957333 Confirmation Sampling Notification

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Sent: Tuesday, April 12, 2022 8:08 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Cc: BHall@btaoil.com <BHall@btaoil.com>
Subject: [EXTERNAL] Nymeyer A #1 Tank Battery nAPP2201957333 Confirmation Sampling Notification

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>
Draft To: "Hamlet, Robert, EMNRD" <Robert.Hamlet@state.nm.us>

Thu, Apr 14, 2022 at 11:50 AM

[Quoted text hidden]



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Nymeyer A#1 Tank Battery nAPP2201957333 Confirmation Sampling Notification

1 message

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Thu, Apr 14, 2022 at 11:47 AM

To: EMNRD-OCD-District1spills <emnrd-ocd-district1spills@state.nm.us>

Good morning,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted at Nymeyer A#1 Tank Battery for the following release:

nAPP2201957333

DOR: 1/18/2022

On April 18, 2022, through April 19, 2022, at approximately 12:00 p.m., Chance Dixon will be on site to conduct additional confirmatory sampling. He can be reached at 575-988-1472. If you need directions to the site or have any concerns regarding this notification, please do not hesitate to contact him.

This will be completed on behalf of BTA Oil Producers.

Thank you,

Chance Dixon

Environmental Technician

Vertex Resource Services Inc.

3101 Boyd Drive,

Carlsbad, NM 88220

C 575.988.1472



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Nymeyer A#1 Tank Battery nAPP2201957333 Confirmation Sampling Notification

3 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Thu, Apr 14, 2022 at 11:47 AM

To: EMNRD-OCD-District1spills <emnrd-ocd-district1spills@state.nm.us>

Good morning,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted at Nymeyer A#1 Tank Battery for the following release:

nAPP2201957333

DOR: 1/18/2022

On April 18, 2022, through April 19, 2022, at approximately 12:00 p.m., Chance Dixon will be on site to conduct additional confirmatory sampling. He can be reached at 575-988-1472. If you need directions to the site or have any concerns regarding this notification, please do not hesitate to contact him.

This will be completed on behalf of BTA Oil Producers.

Thank you,

Chance Dixon

Environmental Technician

Vertex Resource Services Inc.

3101 Boyd Drive,

Carlsbad, NM 88220

C 575.988.1472

Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>

Thu, Apr 14, 2022 at 2:55 PM

To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Cc: "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "Velez, Nelson, EMNRD" <Nelson.Velez@state.nm.us>, "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@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.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

811 S. First Street | Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

<http://www.emnrd.state.nm.us/OCD/>



From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Sent: Thursday, April 14, 2022 11:48 AM
To: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>
Subject: [EXTERNAL] Nymeyer A#1 Tank Battery nAPP2201957333 Confirmation Sampling Notification

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: "Hamlet, Robert, EMNRD" <Robert.Hamlet@state.nm.us>

Tue, Apr 19, 2022 at 3:08 PM

Good afternoon,

Vertex respectfully requests that confirmation be extended at Nymeyer A#1 one more day to Wednesday, April 20, 2022.

Thank you,

Chance Dixon

Environmental Technician

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

C 575.988.1472

[Quoted text hidden]

ATTACHMENT 6

Client Name: BTA Oil Producers
 Site Name: Nymeyer A#1 Tank Battery
 NM OCD Tracking #: nAPP2201957333
 Project #: 22E-00196
 Lab Report(sX): 2202636, 2202708, 2203663

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

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration (ppm)	Volatile		Extractable					Chloride Concentration (mg/kg)
						Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	
BG22-01	0	2/10/2022	0	-	325	ND	ND	ND	ND	ND	ND	ND	ND
BG22-01	1	2/10/2022	0	-	300	ND	ND	ND	ND	ND	ND	ND	ND
BG22-02	0	2/11/2022	0	-	507	ND	ND	ND	ND	ND	ND	ND	270
BG22-02	1	2/11/2022	0	-	1,095	ND	ND	ND	ND	ND	ND	ND	590
BH22-01	0	2/10/2022	3	-	10,347	ND	ND	ND	12	ND	12	12	9200
BH22-01	2	2/10/2022	2	31	9,050	-	-	-	-	-	-	-	-
BH22-01	4	2/15/2022	1	32	595	ND	ND	ND	ND	ND	ND	ND	770
BH22-01	6	2/15/2022	2	3	235	-	-	-	-	-	-	-	-
BH22-01	6	3/9/2022	0	28	345	ND	ND	ND	ND	ND	ND	ND	ND
BH22-02	0	2/10/2022	0	-	1,035	ND	ND	ND	ND	ND	ND	ND	400
BH22-02	1	2/10/2022	1	43	480	-	-	-	-	-	-	-	-
BH22-03	0	2/10/2022	5	-	552	ND	ND	ND	ND	ND	ND	ND	240
BH22-03	2	2/10/2022	3	57	485	ND	ND	ND	ND	ND	ND	ND	220
BH22-04	0	2/10/2022	1	-	290	ND	ND	ND	15	ND	15	15	ND
BH22-04	2	2/10/2022	1	36	412	ND	ND	ND	ND	ND	ND	ND	80
BH22-05	0	2/10/2022	2	-	717	ND	ND	ND	230	140	230	370	220
BH22-05	2	2/10/2022	2	120	1,092	-	-	-	-	-	-	-	-
BH22-05	4	2/15/2022	3	46	505	ND	ND	ND	21	ND	21	21	270
BH22-05	6	2/15/2022	3	19	235	-	-	-	-	-	-	-	-
BH22-06	0	2/10/2022	1	-	575	ND	ND	ND	ND	ND	ND	ND	170
BH22-06	1	2/10/2022	2	99	482	ND	ND	ND	ND	ND	ND	ND	1000
BH22-06	2	3/9/2022	0	31	377	ND	ND	ND	ND	ND	ND	ND	ND
BH22-07	0	2/10/2022	949	-	2,165	ND	62.7	1000	11000	4100	12000	16100	970
BH22-07	1	2/10/2022	1,944	860	2,077	-	-	-	-	-	-	-	-
BH22-07	2	3/9/2022	0	74	420	ND	ND	ND	ND	ND	ND	ND	ND
BH22-08	0	2/10/2022	2,028	-	1,700	0.89	74.89	1200	9000	3200	10200	13400	1200
BH22-08	2	2/10/2022	1,381	943	1,830	-	-	-	-	-	-	-	-
BH22-08	4	2/15/2022	562	-	2,127	-	-	-	-	-	-	-	-
BH22-08	6	2/15/2022	137	93	725	-	-	-	-	-	-	-	-
BH22-08	6.5	2/15/2022	1	48	600	ND	ND	ND	500	310	500	810	1100
BH22-08	8	3/9/2022	0	59	458	ND	ND	ND	ND	ND	ND	ND	ND
BH22-09	0	2/10/2022	2,164	-	10,757	0.36	81.36	1000	9400	3200	10400	13600	11000
BH22-09	1	2/10/2022	913	298	382	-	-	-	-	-	-	-	-
BH22-09	2	2/15/2022	173	-	2,700	-	-	-	-	-	-	-	-
BH22-09	4	2/15/2022	177	-	207	-	-	-	-	-	-	-	-
BH22-09	6	2/15/2022	1,020	386	302	-	-	-	-	-	-	-	-
BH22-09	8	2/15/2022	5	12	180	ND	ND	ND	ND	ND	ND	ND	ND
BH22-10	0	2/10/2022	4	-	5,055	ND	ND	ND	14	ND	14	14	3700
BH22-10	1	2/10/2022	13	210	2,280	-	-	-	-	-	-	-	-
BH22-10	2	2/15/2022	9	16	237	ND	ND	ND	ND	ND	ND	ND	180
BH22-10	4	2/15/2022	1	9	175	-	-	-	-	-	-	-	-
BH22-10	6	2/15/2022	1	3	150	-	-	-	-	-	-	-	-
BH22-11	0	2/10/2022	10	-	492	ND	ND	ND	100	75	100	175	67
BH22-11	1	2/10/2022	16	223	655	-	-	-	-	-	-	-	-
BH22-11	2	2/15/2022	2	5	187	ND	ND	ND	ND	ND	ND	ND	ND
BH22-11	4	2/15/2022	2	6	202	-	-	-	-	-	-	-	-
BH22-12	0	2/10/2022	0	-	480	ND	ND	ND	ND	ND	ND	ND	1200
BH22-12	1	2/10/2022	0	41	325	ND	ND	ND	ND	ND	ND	ND	1500
BH22-13	0	2/10/2022	0	-	377	ND	ND	ND	ND	ND	ND	ND	1500
BH22-13	1	2/10/2022	0	24	389	ND	ND	ND	ND	ND	ND	ND	1800
BH22-14	0	2/10/2022	0	-	412	ND	ND	ND	ND	ND	ND	ND	1600



BH22-14	1	2/10/2022	0	69	260	ND	ND	ND	ND	ND	ND	ND	1300
BH22-15	0	2/11/2022	0	5	312	ND	ND	ND	ND	ND	ND	ND	180
BH22-15	1	2/11/2022	0	1	270	ND	ND	ND	ND	ND	ND	ND	63
BH22-16	0	2/11/2022	0	10	389	ND	ND	ND	ND	ND	ND	ND	170
BH22-16	1	2/11/2022	0	0	477	ND	ND	ND	ND	ND	ND	ND	95
BH22-17	0	3/9/2022	0	20	537	ND	ND	ND	ND	ND	ND	ND	ND
BH22-17	2	3/9/2022	0	65	310	ND	ND	ND	ND	ND	ND	ND	ND
BH22-18	0	3/9/2022	0	98	575	ND	ND	ND	ND	ND	ND	ND	ND
BH22-18	2	3/9/2022	0	42	575	ND	ND	ND	ND	ND	ND	ND	ND
BH22-19	0	3/9/2022	0	61	336	ND	ND	ND	ND	ND	ND	ND	ND
BH22-19	2	3/9/2022	0	70	425	ND	ND	ND	ND	ND	ND	ND	ND
BH22-20	0	3/9/2022	0	33	477	ND	ND	ND	ND	ND	ND	ND	ND
BH22-20	2	3/9/2022	0	39	477	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

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



Client Name: BTA Oil Producers, LLC
 Site Name: Nymeyer A#1
 NM OCD Tracking #: nAPP2201957333
 Project #: 22E-00196
 Lab Report(sX): 2203F78, 2203G96, 2204031, 2204120, 2204285, 2204719, 2204719, 2204982

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

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration (ppm)	Volatile		Extractable					
						Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	
BES22-01	8	3/29/2022	0	20	525	ND	ND	ND	ND	ND	ND	ND	200
BES22-02	8	3/29/2022	0	63	575	ND	ND	ND	ND	ND	ND	ND	180
BES22-03	2	3/30/2022	0	48	419	ND	ND	ND	ND	ND	ND	ND	580
BES22-04	2	3/30/2022	0	60	342	ND	ND	ND	ND	ND	ND	ND	440
BES22-05	2	3/31/2022	0	-	52	ND	ND	ND	ND	ND	ND	ND	150
BES22-06	2	4/4/2022	0	97	321	ND	ND	ND	11	ND	11	11	900
BES22-06	4	4/20/2022	0	37	388	ND	ND	ND	ND	ND	ND	ND	ND
BES22-07	2	4/4/2022	0	45	343	ND	ND	ND	12	ND	12	12	190
BES22-07	4	4/20/2022	0	45	302	ND	ND	ND	ND	ND	ND	ND	ND
BES22-08	2	4/4/2022	0	34	436	ND	ND	ND	140	96	140	136	270
BES22-08	4	4/20/2022	0	82	395	ND	ND	ND	ND	ND	ND	ND	ND
BES22-09	2	4/4/2022	0	29	390	ND	ND	ND	67	60	67	127	280
BES22-09	4	4/20/2022	0	23	438	ND	ND	ND	ND	ND	ND	ND	ND
BES22-10	8	4/14/2022	0	32	345	ND	ND	ND	ND	ND	ND	ND	ND
BES22-11	2	4/14/2022	0	59	481	ND	ND	ND	ND	ND	ND	ND	ND
BES22-12	2	4/14/2022	0	89	560	ND	ND	ND	ND	ND	ND	ND	ND
WES22-01	2	3/28/2022	0	46	500	ND	ND	ND	ND	ND	ND	ND	220
WES22-01	4	3/29/2022	0	28	456	ND	ND	ND	ND	ND	ND	ND	180
WES22-02	2	3/29/2022	0	85	368	ND	ND	ND	ND	ND	ND	ND	190
WES22-02	4	3/29/2022	0	-	472	ND	ND	ND	ND	ND	ND	ND	180
WES22-03	2	3/29/2022	0	39	380	ND	ND	ND	ND	ND	ND	ND	200
WES22-03	4	3/29/2022	0	71	477	ND	ND	ND	ND	ND	ND	ND	210
WES22-04	1	3/30/2022	0	21	430	ND	ND	ND	ND	ND	ND	ND	ND
WES22-05	1	3/31/2022	0	20	389	ND	ND	ND	ND	ND	ND	ND	ND
WES22-06	1	3/31/2022	0	22	362	ND	ND	ND	11	ND	11	11	ND
WES22-07	1	3/31/2022	0	-	399	ND	ND	ND	11	ND	11	11	190
WES22-14	3	4/14/2022	0	94	439	ND	ND	ND	ND	ND	ND	ND	63
WES22-14	6	4/14/2022	0	28	370	ND	ND	ND	ND	ND	ND	ND	ND
WES22-15	3	4/14/2022	0	19	352	ND	ND	ND	ND	ND	ND	ND	ND
WES22-15	6	4/14/2022	0	73	349	ND	ND	ND	ND	ND	ND	ND	ND
WES22-16	3	4/20/2022	0	27	372	ND	ND	ND	ND	ND	ND	ND	ND
WES22-16	6	4/20/2022	0	52	485	ND	ND	ND	ND	ND	ND	ND	ND
WES22-17	3	4/20/2022	0	56	521	ND	ND	ND	ND	ND	ND	ND	ND
WES22-17	6	4/20/2022	0	39	526	ND	ND	ND	ND	ND	ND	ND	ND
WES22-18	3	4/20/2022	0	11	464	ND	ND	ND	ND	ND	ND	ND	ND
WES22-18	6	4/20/2022	0	19	405	ND	ND	ND	ND	ND	ND	ND	ND
WES22-19	2	4/20/2022	0	83	308	ND	ND	ND	ND	ND	ND	ND	ND
WES22-20	2	4/20/2022	0	59	329	ND	ND	ND	ND	ND	ND	ND	ND
WES22-21	2	4/20/2022	0	68	457	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

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



ATTACHMENT 7



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

February 23, 2022

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

RE: Nymeyer A1

OrderNo.: 2202636

Dear Dennis Williams:

Hall Environmental Analysis Laboratory received 22 sample(s) on 2/12/2022 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,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2202636

Date Reported: 2/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-01 0'

Project: Nymeyer A1

Collection Date: 2/10/2022 7:30:00 AM

Lab ID: 2202636-001

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	12	9.8		mg/Kg	1	2/17/2022 5:30:52 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/17/2022 5:30:52 AM
Surr: DNOP	141	51.1-141		%Rec	1	2/17/2022 5:30:52 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/15/2022 3:06:00 PM
Surr: BFB	99.5	70-130		%Rec	1	2/15/2022 3:06:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/15/2022 3:06:00 PM
Toluene	ND	0.047		mg/Kg	1	2/15/2022 3:06:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/15/2022 3:06:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	2/15/2022 3:06:00 PM
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	2/15/2022 3:06:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	9200	600		mg/Kg	200	2/20/2022 9:21:32 PM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-02 0'

Project: Nymeyer A1

Collection Date: 2/10/2022 7:40:00 AM

Lab ID: 2202636-002

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.0		mg/Kg	1	2/17/2022 5:41:25 AM
Motor Oil Range Organics (MRO)	ND	40		mg/Kg	1	2/17/2022 5:41:25 AM
Surr: DNOP	90.6	51.1-141		%Rec	1	2/17/2022 5:41:25 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/15/2022 3:26:00 PM
Surr: BFB	98.0	70-130		%Rec	1	2/15/2022 3:26:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/15/2022 3:26:00 PM
Toluene	ND	0.050		mg/Kg	1	2/15/2022 3:26:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/15/2022 3:26:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2022 3:26:00 PM
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	2/15/2022 3:26:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	400	60		mg/Kg	20	2/18/2022 8:24:18 PM

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

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

Analytical Report

Lab Order 2202636

Date Reported: 2/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-03 0'

Project: Nymeyer A1

Collection Date: 2/10/2022 7:45:00 AM

Lab ID: 2202636-003

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/17/2022 5:52:02 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/17/2022 5:52:02 AM
Surr: DNOP	139	51.1-141		%Rec	1	2/17/2022 5:52:02 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 3:46:00 PM
Surr: BFB	98.6	70-130		%Rec	1	2/15/2022 3:46:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/15/2022 3:46:00 PM
Toluene	ND	0.049		mg/Kg	1	2/15/2022 3:46:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 3:46:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/15/2022 3:46:00 PM
Surr: 4-Bromofluorobenzene	83.5	70-130		%Rec	1	2/15/2022 3:46:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	240	60		mg/Kg	20	2/18/2022 8:36:43 PM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-03 2'

Project: Nymeyer A1

Collection Date: 2/10/2022 7:50:00 AM

Lab ID: 2202636-004

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	2/17/2022 6:02:39 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/17/2022 6:02:39 AM
Surr: DNOP	111	51.1-141		%Rec	1	2/17/2022 6:02:39 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/15/2022 5:04:00 PM
Surr: BFB	95.0	70-130		%Rec	1	2/15/2022 5:04:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/15/2022 5:04:00 PM
Toluene	ND	0.048		mg/Kg	1	2/15/2022 5:04:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/15/2022 5:04:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/15/2022 5:04:00 PM
Surr: 4-Bromofluorobenzene	82.5	70-130		%Rec	1	2/15/2022 5:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	220	61		mg/Kg	20	2/18/2022 8:49:08 PM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-04 0'

Project: Nymeyer A1

Collection Date: 2/10/2022 7:55:00 AM

Lab ID: 2202636-005

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	15	9.4		mg/Kg	1	2/17/2022 6:13:16 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/17/2022 6:13:16 AM
Surr: DNOP	111	51.1-141		%Rec	1	2/17/2022 6:13:16 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/15/2022 5:24:00 PM
Surr: BFB	97.1	70-130		%Rec	1	2/15/2022 5:24:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/15/2022 5:24:00 PM
Toluene	ND	0.047		mg/Kg	1	2/15/2022 5:24:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/15/2022 5:24:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	2/15/2022 5:24:00 PM
Surr: 4-Bromofluorobenzene	83.1	70-130		%Rec	1	2/15/2022 5:24:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	61		mg/Kg	20	2/18/2022 9:01:33 PM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-04 2'

Project: Nymeyer A1

Collection Date: 2/10/2022 8:00:00 AM

Lab ID: 2202636-006

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/16/2022 7:48:05 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/16/2022 7:48:05 PM
Surr: DNOP	61.2	51.1-141		%Rec	1	2/16/2022 7:48:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/15/2022 5:44:00 PM
Surr: BFB	98.2	70-130		%Rec	1	2/15/2022 5:44:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/15/2022 5:44:00 PM
Toluene	ND	0.048		mg/Kg	1	2/15/2022 5:44:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/15/2022 5:44:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/15/2022 5:44:00 PM
Surr: 4-Bromofluorobenzene	85.1	70-130		%Rec	1	2/15/2022 5:44:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	80	60		mg/Kg	20	2/18/2022 9:13:57 PM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-05 0'

Project: Nymeyer A1

Collection Date: 2/10/2022 8:05:00 AM

Lab ID: 2202636-007

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	230	9.6		mg/Kg	1	2/16/2022 7:58:45 PM
Motor Oil Range Organics (MRO)	140	48		mg/Kg	1	2/16/2022 7:58:45 PM
Surr: DNOP	110	51.1-141		%Rec	1	2/16/2022 7:58:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/15/2022 6:04:00 PM
Surr: BFB	103	70-130		%Rec	1	2/15/2022 6:04:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/15/2022 6:04:00 PM
Toluene	ND	0.048		mg/Kg	1	2/15/2022 6:04:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/15/2022 6:04:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/15/2022 6:04:00 PM
Surr: 4-Bromofluorobenzene	86.1	70-130		%Rec	1	2/15/2022 6:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	220	60		mg/Kg	20	2/18/2022 9:26:22 PM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-06 0'

Project: Nymeyer A1

Collection Date: 2/10/2022 8:15:00 AM

Lab ID: 2202636-008

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/16/2022 8:09:24 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/16/2022 8:09:24 PM
Surr: DNOP	96.4	51.1-141		%Rec	1	2/16/2022 8:09:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 6:24:00 PM
Surr: BFB	101	70-130		%Rec	1	2/15/2022 6:24:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/15/2022 6:24:00 PM
Toluene	ND	0.049		mg/Kg	1	2/15/2022 6:24:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 6:24:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/15/2022 6:24:00 PM
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	2/15/2022 6:24:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	170	60		mg/Kg	20	2/18/2022 9:38:47 PM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-06 1'

Project: Nymeyer A1

Collection Date: 2/10/2022 8:20:00 AM

Lab ID: 2202636-009

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/16/2022 8:20:02 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/16/2022 8:20:02 PM
Surr: DNOP	68.8	51.1-141		%Rec	1	2/16/2022 8:20:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 6:43:00 PM
Surr: BFB	102	70-130		%Rec	1	2/15/2022 6:43:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/15/2022 6:43:00 PM
Toluene	ND	0.049		mg/Kg	1	2/15/2022 6:43:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 6:43:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2022 6:43:00 PM
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	2/15/2022 6:43:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	1000	60		mg/Kg	20	2/18/2022 9:51:12 PM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-07 0'

Project: Nymeyer A1

Collection Date: 2/10/2022 8:25:00 AM

Lab ID: 2202636-010

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	11000	180		mg/Kg	20	2/16/2022 8:30:39 PM
Motor Oil Range Organics (MRO)	4100	910		mg/Kg	20	2/16/2022 8:30:39 PM
Surr: DNOP	0	51.1-141	S	%Rec	20	2/16/2022 8:30:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	1000	97		mg/Kg	20	2/15/2022 11:28:00 AM
Surr: BFB	293	70-130	S	%Rec	20	2/15/2022 11:28:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.48		mg/Kg	20	2/15/2022 11:28:00 AM
Toluene	9.2	0.97		mg/Kg	20	2/15/2022 11:28:00 AM
Ethylbenzene	9.5	0.97		mg/Kg	20	2/15/2022 11:28:00 AM
Xylenes, Total	44	1.9		mg/Kg	20	2/15/2022 11:28:00 AM
Surr: 4-Bromofluorobenzene	158	70-130	S	%Rec	20	2/15/2022 11:28:00 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	970	60		mg/Kg	20	2/18/2022 10:28:26 PM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-08 0'

Project: Nymeyer A1

Collection Date: 2/10/2022 8:35:00 AM

Lab ID: 2202636-011

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	9000	100		mg/Kg	10	2/16/2022 8:41:14 PM
Motor Oil Range Organics (MRO)	3200	500		mg/Kg	10	2/16/2022 8:41:14 PM
Surr: DNOP	0	51.1-141	S	%Rec	10	2/16/2022 8:41:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	1200	24		mg/Kg	5	2/15/2022 11:48:00 AM
Surr: BFB	648	70-130	S	%Rec	5	2/15/2022 11:48:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	0.89	0.12		mg/Kg	5	2/15/2022 11:48:00 AM
Toluene	18	0.24		mg/Kg	5	2/15/2022 11:48:00 AM
Ethylbenzene	16	0.24		mg/Kg	5	2/15/2022 11:48:00 AM
Xylenes, Total	40	0.49		mg/Kg	5	2/15/2022 11:48:00 AM
Surr: 4-Bromofluorobenzene	225	70-130	S	%Rec	5	2/15/2022 11:48:00 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	1200	60		mg/Kg	20	2/18/2022 10:40:51 PM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-09 0'

Project: Nymeyer A1

Collection Date: 2/10/2022 8:45:00 AM

Lab ID: 2202636-012

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	9400	100		mg/Kg	10	2/16/2022 8:51:50 PM
Motor Oil Range Organics (MRO)	3200	500		mg/Kg	10	2/16/2022 8:51:50 PM
Surr: DNOP	0	51.1-141	S	%Rec	10	2/16/2022 8:51:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	1000	24		mg/Kg	5	2/15/2022 12:08:00 PM
Surr: BFB	564	70-130	S	%Rec	5	2/15/2022 12:08:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	0.36	0.12		mg/Kg	5	2/15/2022 12:08:00 PM
Toluene	14	0.24		mg/Kg	5	2/15/2022 12:08:00 PM
Ethylbenzene	13	0.24		mg/Kg	5	2/15/2022 12:08:00 PM
Xylenes, Total	54	0.49		mg/Kg	5	2/15/2022 12:08:00 PM
Surr: 4-Bromofluorobenzene	209	70-130	S	%Rec	5	2/15/2022 12:08:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	11000	600		mg/Kg	200	2/20/2022 9:58:48 PM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-10 0'

Project: Nymeyer A1

Collection Date: 2/10/2022 8:55:00 AM

Lab ID: 2202636-013

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	14	10		mg/Kg	1	2/18/2022 7:02:17 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/18/2022 7:02:17 AM
Surr: DNOP	66.1	51.1-141		%Rec	1	2/18/2022 7:02:17 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/15/2022 7:03:00 PM
Surr: BFB	98.1	70-130		%Rec	1	2/15/2022 7:03:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/15/2022 7:03:00 PM
Toluene	ND	0.048		mg/Kg	1	2/15/2022 7:03:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/15/2022 7:03:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/15/2022 7:03:00 PM
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	1	2/15/2022 7:03:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	3700	150		mg/Kg	50	2/20/2022 10:11:13 PM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-11 0'

Project: Nymeyer A1

Collection Date: 2/10/2022 9:05:00 AM

Lab ID: 2202636-014

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	100	8.1		mg/Kg	1	2/18/2022 7:08:37 PM
Motor Oil Range Organics (MRO)	75	40		mg/Kg	1	2/18/2022 7:08:37 PM
Surr: DNOP	117	51.1-141		%Rec	1	2/18/2022 7:08:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/15/2022 7:23:00 PM
Surr: BFB	95.8	70-130		%Rec	1	2/15/2022 7:23:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/15/2022 7:23:00 PM
Toluene	ND	0.050		mg/Kg	1	2/15/2022 7:23:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/15/2022 7:23:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/15/2022 7:23:00 PM
Surr: 4-Bromofluorobenzene	81.4	70-130		%Rec	1	2/15/2022 7:23:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	67	59		mg/Kg	20	2/18/2022 11:18:06 PM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BG22-01 0'

Project: Nymeyer A1

Collection Date: 2/10/2022 2:00:00 PM

Lab ID: 2202636-015

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/16/2022 9:23:35 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/16/2022 9:23:35 PM
Surr: DNOP	112	51.1-141		%Rec	1	2/16/2022 9:23:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/15/2022 7:43:00 PM
Surr: BFB	96.5	70-130		%Rec	1	2/15/2022 7:43:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/15/2022 7:43:00 PM
Toluene	ND	0.048		mg/Kg	1	2/15/2022 7:43:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/15/2022 7:43:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/15/2022 7:43:00 PM
Surr: 4-Bromofluorobenzene	81.0	70-130		%Rec	1	2/15/2022 7:43:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	2/18/2022 11:30:30 PM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BG22-01 1'

Project: Nymeyer A1

Collection Date: 2/10/2022 2:05:00 PM

Lab ID: 2202636-016

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/16/2022 9:34:10 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/16/2022 9:34:10 PM
Surr: DNOP	64.3	51.1-141		%Rec	1	2/16/2022 9:34:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2022 8:02:00 PM
Surr: BFB	94.7	70-130		%Rec	1	2/15/2022 8:02:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/15/2022 8:02:00 PM
Toluene	ND	0.049		mg/Kg	1	2/15/2022 8:02:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2022 8:02:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/15/2022 8:02:00 PM
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	1	2/15/2022 8:02:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	2/18/2022 11:42:54 PM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-12 0'

Project: Nymeyer A1

Collection Date: 2/10/2022 2:45:00 PM

Lab ID: 2202636-017

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/18/2022 2:18:46 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/18/2022 2:18:46 AM
Surr: DNOP	82.2	51.1-141		%Rec	1	2/18/2022 2:18:46 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/15/2022 10:21:00 PM
Surr: BFB	97.7	70-130		%Rec	1	2/15/2022 10:21:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/15/2022 10:21:00 PM
Toluene	ND	0.050		mg/Kg	1	2/15/2022 10:21:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/15/2022 10:21:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2022 10:21:00 PM
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	2/15/2022 10:21:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	1200	59		mg/Kg	20	2/18/2022 11:55:19 PM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-12 1'

Project: Nymeyer A1

Collection Date: 2/10/2022 2:50:00 PM

Lab ID: 2202636-018

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/18/2022 2:29:14 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/18/2022 2:29:14 AM
Surr: DNOP	80.4	51.1-141		%Rec	1	2/18/2022 2:29:14 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/15/2022 11:20:00 PM
Surr: BFB	99.8	70-130		%Rec	1	2/15/2022 11:20:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/15/2022 11:20:00 PM
Toluene	ND	0.050		mg/Kg	1	2/15/2022 11:20:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/15/2022 11:20:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/15/2022 11:20:00 PM
Surr: 4-Bromofluorobenzene	85.2	70-130		%Rec	1	2/15/2022 11:20:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	1500	61		mg/Kg	20	2/19/2022 12:07:43 AM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-13 0'

Project: Nymeyer A1

Collection Date: 2/10/2022 2:55:00 PM

Lab ID: 2202636-019

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/18/2022 2:39:41 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/18/2022 2:39:41 AM
Surr: DNOP	86.6	51.1-141		%Rec	1	2/18/2022 2:39:41 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/16/2022 12:19:00 AM
Surr: BFB	99.2	70-130		%Rec	1	2/16/2022 12:19:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	2/16/2022 12:19:00 AM
Toluene	ND	0.046		mg/Kg	1	2/16/2022 12:19:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	2/16/2022 12:19:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	2/16/2022 12:19:00 AM
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	2/16/2022 12:19:00 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	1500	60		mg/Kg	20	2/18/2022 9:40:25 PM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-13 1'

Project: Nymeyer A1

Collection Date: 2/10/2022 3:00:00 PM

Lab ID: 2202636-020

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/18/2022 2:50:06 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/18/2022 2:50:06 AM
Surr: DNOP	87.3	51.1-141		%Rec	1	2/18/2022 2:50:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/16/2022 12:39:00 AM
Surr: BFB	102	70-130		%Rec	1	2/16/2022 12:39:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	2/16/2022 12:39:00 AM
Toluene	ND	0.046		mg/Kg	1	2/16/2022 12:39:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	2/16/2022 12:39:00 AM
Xylenes, Total	ND	0.092		mg/Kg	1	2/16/2022 12:39:00 AM
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	2/16/2022 12:39:00 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	1800	60		mg/Kg	20	2/18/2022 10:17:27 PM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-14 0'

Project: Nymeyer A1

Collection Date: 2/10/2022 3:05:00 PM

Lab ID: 2202636-021

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/18/2022 3:00:29 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/18/2022 3:00:29 AM
Surr: DNOP	76.3	51.1-141		%Rec	1	2/18/2022 3:00:29 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/16/2022 12:59:00 AM
Surr: BFB	102	70-130		%Rec	1	2/16/2022 12:59:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/16/2022 12:59:00 AM
Toluene	ND	0.047		mg/Kg	1	2/16/2022 12:59:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/16/2022 12:59:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	2/16/2022 12:59:00 AM
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	2/16/2022 12:59:00 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	1600	60		mg/Kg	20	2/18/2022 10:29:48 PM

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

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

Analytical Report

Lab Order **2202636**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-14 1'

Project: Nymeyer A1

Collection Date: 2/10/2022 3:10:00 PM

Lab ID: 2202636-022

Matrix: SOIL

Received Date: 2/12/2022 8:55:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/18/2022 3:10:50 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/18/2022 3:10:50 AM
Surr: DNOP	76.9	51.1-141		%Rec	1	2/18/2022 3:10:50 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/16/2022 1:19:00 AM
Surr: BFB	100	70-130		%Rec	1	2/16/2022 1:19:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/16/2022 1:19:00 AM
Toluene	ND	0.049		mg/Kg	1	2/16/2022 1:19:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/16/2022 1:19:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/16/2022 1:19:00 AM
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	2/16/2022 1:19:00 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	1300	60		mg/Kg	20	2/18/2022 10:42:09 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202636

23-Feb-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A1

Sample ID: MB-65653	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 65653	RunNo: 85950								
Prep Date: 2/18/2022	Analysis Date: 2/18/2022	SeqNo: 3027322	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-65653	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 65653	RunNo: 85950								
Prep Date: 2/18/2022	Analysis Date: 2/18/2022	SeqNo: 3027323	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.6	90	110			

Sample ID: MB-65654	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 65654	RunNo: 85952								
Prep Date: 2/18/2022	Analysis Date: 2/18/2022	SeqNo: 3027713	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	30								

Sample ID: LCS-65654	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 65654	RunNo: 85952								
Prep Date: 2/18/2022	Analysis Date: 2/18/2022	SeqNo: 3027714	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.5	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202636

23-Feb-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A1

Sample ID: 2202636-006AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-04 2'	Batch ID: 65557	RunNo: 85892								
Prep Date: 2/15/2022	Analysis Date: 2/16/2022	SeqNo: 3024681			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	49.95	7.328	77.4	39.3	155			
Surr: DNOP	3.9		4.995		78.7	51.1	141			

Sample ID: 2202636-006AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-04 2'	Batch ID: 65557	RunNo: 85892								
Prep Date: 2/15/2022	Analysis Date: 2/16/2022	SeqNo: 3024682			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.1	45.33	7.328	84.8	39.3	155	0.556	23.4	
Surr: DNOP	3.9		4.533		85.5	51.1	141	0	0	

Sample ID: LCS-65550	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 65550	RunNo: 85892								
Prep Date: 2/15/2022	Analysis Date: 2/16/2022	SeqNo: 3024741			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	62	10	50.00	0	123	68.9	135			
Surr: DNOP	6.1		5.000		122	51.1	141			

Sample ID: LCS-65557	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 65557	RunNo: 85892								
Prep Date: 2/15/2022	Analysis Date: 2/16/2022	SeqNo: 3024742			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.9	68.9	135			
Surr: DNOP	4.1		5.000		82.2	51.1	141			

Sample ID: MB-65550	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 65550	RunNo: 85892								
Prep Date: 2/15/2022	Analysis Date: 2/16/2022	SeqNo: 3024746			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		129	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202636

23-Feb-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A1

Sample ID: MB-65557	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 65557	RunNo: 85892								
Prep Date: 2/15/2022	Analysis Date: 2/16/2022	SeqNo: 3024747			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	9.4		10.00		94.0	51.1	141			

Sample ID: 2202636-017AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-12 0'	Batch ID: 65570	RunNo: 85916								
Prep Date: 2/16/2022	Analysis Date: 2/18/2022	SeqNo: 3025423			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.7	48.69	5.008	92.0	39.3	155			
Surr: DNOP	3.8		4.869		77.6	51.1	141			

Sample ID: 2202636-017AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-12 0'	Batch ID: 65570	RunNo: 85916								
Prep Date: 2/16/2022	Analysis Date: 2/18/2022	SeqNo: 3025424			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.9	49.55	5.008	81.3	39.3	155	9.41	23.4	
Surr: DNOP	3.9		4.955		77.8	51.1	141	0	0	

Sample ID: LCS-65570	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 65570	RunNo: 85916								
Prep Date: 2/16/2022	Analysis Date: 2/17/2022	SeqNo: 3025512			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	114	68.9	135			
Surr: DNOP	4.1		5.000		82.1	51.1	141			

Sample ID: MB-65570	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 65570	RunNo: 85916								
Prep Date: 2/16/2022	Analysis Date: 2/17/2022	SeqNo: 3025517			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		89.4	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202636

23-Feb-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A1

Sample ID: ics-65537	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 65537		RunNo: 85851							
Prep Date: 2/14/2022	Analysis Date: 2/15/2022		SeqNo: 3023024		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.9	78.6	131			
Surr: BFB	1100		1000		113	70	130			

Sample ID: mb-65537	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 65537		RunNo: 85851							
Prep Date: 2/14/2022	Analysis Date: 2/15/2022		SeqNo: 3023025		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		99.5	70	130			

Sample ID: ics-65538	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 65538		RunNo: 85851							
Prep Date: 2/14/2022	Analysis Date: 2/15/2022		SeqNo: 3023048		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	78.6	131			
Surr: BFB	1100		1000		110	70	130			

Sample ID: mb-65538	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 65538		RunNo: 85851							
Prep Date: 2/14/2022	Analysis Date: 2/15/2022		SeqNo: 3023049		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	930		1000		93.4	70	130			

Sample ID: 2202636-017ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH22-12 0'	Batch ID: 65538		RunNo: 85851							
Prep Date: 2/14/2022	Analysis Date: 2/15/2022		SeqNo: 3023051		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	24.90	0	118	70	130			
Surr: BFB	1200		996.0		118	70	130			

Sample ID: 2202636-017amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH22-12 0'	Batch ID: 65538		RunNo: 85851							
Prep Date: 2/14/2022	Analysis Date: 2/15/2022		SeqNo: 3023052		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202636

23-Feb-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A1

Sample ID: 2202636-017amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-12 0'	Batch ID: 65538	RunNo: 85851								
Prep Date: 2/14/2022	Analysis Date: 2/15/2022	SeqNo: 3023052 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	24.95	0	114	70	130	3.67	20	
Surr: BFB	1100		998.0		112	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202636

23-Feb-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A1

Sample ID: ics-65537	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 65537	RunNo: 85851								
Prep Date: 2/14/2022	Analysis Date: 2/15/2022	SeqNo: 3023077	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.0	80	120			
Toluene	0.89	0.050	1.000	0	89.2	80	120			
Ethylbenzene	0.88	0.050	1.000	0	88.3	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.4	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.0	70	130			

Sample ID: mb-65537	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 65537	RunNo: 85851								
Prep Date: 2/14/2022	Analysis Date: 2/15/2022	SeqNo: 3023078	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		86.2	70	130			

Sample ID: ics-65538	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 65538	RunNo: 85851								
Prep Date: 2/14/2022	Analysis Date: 2/15/2022	SeqNo: 3023101	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.1	80	120			
Toluene	0.93	0.050	1.000	0	93.5	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.5	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.4	80	120			
Surr: 4-Bromofluorobenzene	0.84		1.000		83.9	70	130			

Sample ID: mb-65538	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 65538	RunNo: 85851								
Prep Date: 2/14/2022	Analysis Date: 2/15/2022	SeqNo: 3023102	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	0.80		1.000		80.1	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202636

23-Feb-22

Client: Vertex Resources Services, Inc.

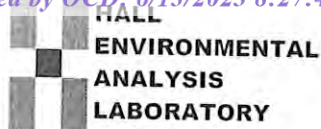
Project: Nymeyer A1

Sample ID: 2202636-018ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-12 1'	Batch ID: 65538	RunNo: 85851								
Prep Date: 2/14/2022	Analysis Date: 2/15/2022	SeqNo: 3023105	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9980	0	106	80	120			
Toluene	1.1	0.050	0.9980	0	109	80	120			
Ethylbenzene	1.1	0.050	0.9980	0	111	80	120			
Xylenes, Total	3.3	0.10	2.994	0	111	80	120			
Surr: 4-Bromofluorobenzene	0.87		0.9980		87.2	70	130			

Sample ID: 2202636-018amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-12 1'	Batch ID: 65538	RunNo: 85851								
Prep Date: 2/14/2022	Analysis Date: 2/16/2022	SeqNo: 3023106	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9970	0	107	80	120	0.213	20	
Toluene	1.1	0.050	0.9970	0	109	80	120	0.290	20	
Ethylbenzene	1.1	0.050	0.9970	0	110	80	120	0.522	20	
Xylenes, Total	3.3	0.10	2.991	0	110	80	120	1.29	20	
Surr: 4-Bromofluorobenzene	0.88		0.9970		87.9	70	130	0	0	

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2202636 RcptNo: 1

Received By: Isaiah Ortiz 2/11/2022
Completed By: Isaiah Ortiz 2/12/2022 9:22:20 AM
Reviewed By: [Signature] 02/12/2022

Chain of Custody

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

Log In

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

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

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

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

Chain-of-Custody Record

Client: VERELY

Mailing Address: ON FIRE

Phone #: _____

email or Fax#: _____

QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation: AZ Compliance
 NELAC Other
 EDD (Type) _____

Turn-Around Time: 5-Day

Standard Rush

Project Name: Nymer A#1

Project #: 22E-00196

Project Manager: Dennis Williams

Sampler: Chance Dixon

On Ice: Yes No

of Coolers: 2 31.5 ± 0

Cooler Temp (including CP): 3.2 ± 0 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2/11/0	7:30	SOI7	BH22-01 0'	4 OZ	Fce	2202636
	7:40		BH22-02 0'			002
	7:45		BH22-03 0'			003
	7:50		BH22-03 2'			004
	7:55		BH22-04 0'			005
	8:00		BH22-04 2'			006
	8:05		BH22-05 0'			007
	8:15		BH22-06 0'			008
	8:20		BH22-06 1'			009
	8:25		BH22-07 0'			010
	8:35		BH22-08 0'			011
	8:45		BH22-09 0'			012

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

Analysis Request

Received by: Williams Date: 2/11/22 Time: 12:00

Received by: T. Dixon Date: 2/12/22 Time: 0655

Relinquished by: _____

Relinquished by: Williams Date: _____ Time: _____

Remarks: CC=Chance Dixon

Chain-of-Custody Record

Client: Vertex

Turn-Around Time: 5-DAY

Standard Rush

Project Name: Nymerger A #1

Project #: 22E-00196

Project Manager: Dennis Williams

Sampler: Change Dixon

On Ice: Yes No

of Coolers: 2 $3.1^{\circ} \pm 0$

Cooler Temp (including CF): 3.2^{\circ} \pm 0 (°C)

Container Type and # 40Z Preservative Type FCC HEAL No. 202636



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Temperature (°C)
2/10	8:55	SOI7	BH22-10 0'	40Z	FCC	202636	013
	9:05		BH22-11 0'				014
	2:00		BH22-01 0'				015
	2:05		BH22-01 1'				016
	2:45		BH22-12 0'				017
	2:50		BH22-12 1'				018
	2:55		BH22-13 0'				019
	3:00		BH22-13 1'				020
	3:05		BH22-14 0'				021
	3:10		BH22-14 1'				022

Received by: William Date: 2/10/22 Time: 1200

Received by: Edo Conwin Date: 2/12/22 Time: 0855

Relinquished by: _____ Date: _____ Time: _____

Relinquished by: William Date: 2/10/22 Time: 1100

Remarks: CC: Change Dixon

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



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

February 23, 2022

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

RE: Nymeyer H 1

OrderNo.: 2202708

Dear Dennis Williams:

Hall Environmental Analysis Laboratory received 6 sample(s) on 2/15/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2202708**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BG22-02 0'

Project: Nymeyer H 1

Collection Date: 2/11/2022 11:00:00 AM

Lab ID: 2202708-001

Matrix: SOIL

Received Date: 2/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/19/2022 12:48:58 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/19/2022 12:48:58 AM
Surr: DNOP	120	51.1-141		%Rec	1	2/19/2022 12:48:58 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/18/2022 12:43:00 AM
Surr: BFB	99.6	70-130		%Rec	1	2/18/2022 12:43:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/18/2022 12:43:00 AM
Toluene	ND	0.050		mg/Kg	1	2/18/2022 12:43:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/18/2022 12:43:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/18/2022 12:43:00 AM
Surr: 4-Bromofluorobenzene	81.3	70-130		%Rec	1	2/18/2022 12:43:00 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	270	60		mg/Kg	20	2/21/2022 6:40:31 PM

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

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

Analytical Report

Lab Order **2202708**

Date Reported: 2/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BG22-02 1'

Project: Nymeyer H 1

Collection Date: 2/11/2022 11:05:00 AM

Lab ID: 2202708-002

Matrix: SOIL

Received Date: 2/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/19/2022 12:59:42 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/19/2022 12:59:42 AM
Surr: DNOP	115	51.1-141		%Rec	1	2/19/2022 12:59:42 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/18/2022 1:03:00 AM
Surr: BFB	99.5	70-130		%Rec	1	2/18/2022 1:03:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/18/2022 1:03:00 AM
Toluene	ND	0.050		mg/Kg	1	2/18/2022 1:03:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/18/2022 1:03:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	2/18/2022 1:03:00 AM
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	2/18/2022 1:03:00 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	590	61		mg/Kg	20	2/21/2022 6:52:55 PM

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

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

Analytical Report

Lab Order **2202708**

Date Reported: **2/23/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BG22-15 0'

Project: Nymeyer H 1

Collection Date: 2/11/2022 11:10:00 AM

Lab ID: 2202708-003

Matrix: SOIL

Received Date: 2/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/19/2022 1:10:34 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/19/2022 1:10:34 AM
Surr: DNOP	95.4	51.1-141		%Rec	1	2/19/2022 1:10:34 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/18/2022 1:23:00 AM
Surr: BFB	101	70-130		%Rec	1	2/18/2022 1:23:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/18/2022 1:23:00 AM
Toluene	ND	0.050		mg/Kg	1	2/18/2022 1:23:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/18/2022 1:23:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	2/18/2022 1:23:00 AM
Surr: 4-Bromofluorobenzene	88.3	70-130		%Rec	1	2/18/2022 1:23:00 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	180	60		mg/Kg	20	2/21/2022 7:05:20 PM

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

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

Analytical Report

Lab Order **2202708**

Date Reported: 2/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BG22-15 1'

Project: Nymeyer H 1

Collection Date: 2/11/2022 11:15:00 AM

Lab ID: 2202708-004

Matrix: SOIL

Received Date: 2/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/19/2022 1:21:21 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/19/2022 1:21:21 AM
Surr: DNOP	117	51.1-141		%Rec	1	2/19/2022 1:21:21 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/18/2022 1:42:00 AM
Surr: BFB	95.6	70-130		%Rec	1	2/18/2022 1:42:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/18/2022 1:42:00 AM
Toluene	ND	0.050		mg/Kg	1	2/18/2022 1:42:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/18/2022 1:42:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	2/18/2022 1:42:00 AM
Surr: 4-Bromofluorobenzene	83.5	70-130		%Rec	1	2/18/2022 1:42:00 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	63	60		mg/Kg	20	2/21/2022 7:17:44 PM

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

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

Analytical Report

Lab Order **2202708**

Date Reported: 2/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BG22-16 0'

Project: Nymeyer H 1

Collection Date: 2/11/2022 11:20:00 AM

Lab ID: 2202708-005

Matrix: SOIL

Received Date: 2/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/19/2022 1:32:07 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/19/2022 1:32:07 AM
Surr: DNOP	104	51.1-141		%Rec	1	2/19/2022 1:32:07 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/18/2022 2:02:00 AM
Surr: BFB	94.9	70-130		%Rec	1	2/18/2022 2:02:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/18/2022 2:02:00 AM
Toluene	ND	0.049		mg/Kg	1	2/18/2022 2:02:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/18/2022 2:02:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/18/2022 2:02:00 AM
Surr: 4-Bromofluorobenzene	80.8	70-130		%Rec	1	2/18/2022 2:02:00 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	170	59		mg/Kg	20	2/21/2022 7:30:09 PM

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

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

Analytical Report

Lab Order **2202708**

Date Reported: 2/23/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BG22-16 1'

Project: Nymeyer H 1

Collection Date: 2/11/2022 11:25:00 AM

Lab ID: 2202708-006

Matrix: SOIL

Received Date: 2/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/19/2022 1:42:50 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/19/2022 1:42:50 AM
Surr: DNOP	97.6	51.1-141		%Rec	1	2/19/2022 1:42:50 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/18/2022 3:00:00 AM
Surr: BFB	94.0	70-130		%Rec	1	2/18/2022 3:00:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/18/2022 3:00:00 AM
Toluene	ND	0.050		mg/Kg	1	2/18/2022 3:00:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/18/2022 3:00:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/18/2022 3:00:00 AM
Surr: 4-Bromofluorobenzene	82.6	70-130		%Rec	1	2/18/2022 3:00:00 AM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	95	60		mg/Kg	20	2/21/2022 7:42:33 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202708

23-Feb-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer H 1

Sample ID: MB-65696	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 65696	RunNo: 85979								
Prep Date: 2/21/2022	Analysis Date: 2/21/2022	SeqNo: 3028742	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-65696	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 65696	RunNo: 85979								
Prep Date: 2/21/2022	Analysis Date: 2/21/2022	SeqNo: 3028743	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			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202708

23-Feb-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer H 1

Sample ID: LCS-65607	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 65607		RunNo: 85938							
Prep Date: 2/17/2022	Analysis Date: 2/18/2022		SeqNo: 3026747		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	68.9	135			
Surr: DNOP	4.4		5.000		87.3	51.1	141			

Sample ID: LCS-65613	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 65613		RunNo: 85938							
Prep Date: 2/17/2022	Analysis Date: 2/18/2022		SeqNo: 3026749		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		88.8	51.1	141			

Sample ID: LCS-65620	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 65620		RunNo: 85938							
Prep Date: 2/17/2022	Analysis Date: 2/18/2022		SeqNo: 3026750		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		86.5	51.1	141			

Sample ID: MB-65607	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 65607		RunNo: 85938							
Prep Date: 2/17/2022	Analysis Date: 2/18/2022		SeqNo: 3026753		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		88.8	51.1	141			

Sample ID: MB-65613	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 65613		RunNo: 85938							
Prep Date: 2/17/2022	Analysis Date: 2/18/2022		SeqNo: 3026755		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		103	51.1	141			

Sample ID: MB-65620	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 65620		RunNo: 85938							
Prep Date: 2/17/2022	Analysis Date: 2/18/2022		SeqNo: 3026756		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		99.7	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202708

23-Feb-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer H 1

Sample ID: ics-65588	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 65588		RunNo: 85917							
Prep Date: 2/16/2022	Analysis Date: 2/17/2022		SeqNo: 3025624		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	78.6	131			
Surr: BFB	1100		1000		107	70	130			

Sample ID: mb-65588	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 65588		RunNo: 85917							
Prep Date: 2/16/2022	Analysis Date: 2/17/2022		SeqNo: 3025625		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		96.6	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202708

23-Feb-22

Client: Vertex Resources Services, Inc.

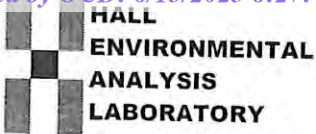
Project: Nymeyer H 1

Sample ID: lcs-65588	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 65588		RunNo: 85917							
Prep Date: 2/16/2022	Analysis Date: 2/17/2022		SeqNo: 3025677		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.3	80	120			
Toluene	0.95	0.050	1.000	0	95.3	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.5	80	120			
Surr: 4-Bromofluorobenzene	0.82		1.000		82.2	70	130			

Sample ID: mb-65588	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 65588		RunNo: 85917							
Prep Date: 2/16/2022	Analysis Date: 2/17/2022		SeqNo: 3025678		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.84		1.000		83.6	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2202708 RcptNo: 1

Received By: Sean Livingston 2/15/2022 8:00:00 AM
Completed By: Sean Livingston 2/15/2022 9:22:57 AM
Reviewed By: jn 2/15/22

Chain of Custody

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

Log In

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

of preserved bottles checked for pH:
(<2 or >12 unless noted)
Adjusted?
Checked by: KPGA 2/15/22

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

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



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

February 28, 2022

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

RE: Nymeyer A 1

OrderNo.: 2202830

Dear Dennis Williams:

Hall Environmental Analysis Laboratory received 6 sample(s) on 2/17/2022 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,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2202830

Date Reported: 2/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-01 4'

Project: Nymeyer A 1

Collection Date: 2/15/2022 8:30:00 AM

Lab ID: 2202830-001

Matrix: SOIL

Received Date: 2/17/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/22/2022 8:52:18 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/22/2022 8:52:18 PM
Surr: DNOP	85.1	51.1-141		%Rec	1	2/22/2022 8:52:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/19/2022 3:15:00 PM
Surr: BFB	101	70-130		%Rec	1	2/19/2022 3:15:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/19/2022 3:15:00 PM
Toluene	ND	0.050		mg/Kg	1	2/19/2022 3:15:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/19/2022 3:15:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/19/2022 3:15:00 PM
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	2/19/2022 3:15:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	770	60		mg/Kg	20	2/23/2022 1:10:36 AM

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

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

Analytical Report

Lab Order **2202830**

Date Reported: **2/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-05 4'

Project: Nymeyer A 1

Collection Date: 2/15/2022 8:45:00 AM

Lab ID: 2202830-002

Matrix: SOIL

Received Date: 2/17/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	21	9.9		mg/Kg	1	2/22/2022 9:06:51 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/22/2022 9:06:51 PM
Surr: DNOP	82.4	51.1-141		%Rec	1	2/22/2022 9:06:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/19/2022 3:35:00 PM
Surr: BFB	104	70-130		%Rec	1	2/19/2022 3:35:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/19/2022 3:35:00 PM
Toluene	ND	0.047		mg/Kg	1	2/19/2022 3:35:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/19/2022 3:35:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	2/19/2022 3:35:00 PM
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	2/19/2022 3:35:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	270	60		mg/Kg	20	2/23/2022 1:23:01 AM

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

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

Analytical Report

Lab Order **2202830**

Date Reported: **2/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-10 2'

Project: Nymeyer A 1

Collection Date: 2/15/2022 9:00:00 AM

Lab ID: 2202830-003

Matrix: SOIL

Received Date: 2/17/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/22/2022 9:21:17 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/22/2022 9:21:17 PM
Surr: DNOP	85.4	51.1-141		%Rec	1	2/22/2022 9:21:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/19/2022 3:55:00 PM
Surr: BFB	99.0	70-130		%Rec	1	2/19/2022 3:55:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/19/2022 3:55:00 PM
Toluene	ND	0.048		mg/Kg	1	2/19/2022 3:55:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/19/2022 3:55:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/19/2022 3:55:00 PM
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	2/19/2022 3:55:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	180	60		mg/Kg	20	2/23/2022 1:35:26 AM

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

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

Analytical Report

Lab Order **2202830**

Date Reported: 2/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-11 2'

Project: Nymeyer A 1

Collection Date: 2/15/2022 9:15:00 AM

Lab ID: 2202830-004

Matrix: SOIL

Received Date: 2/17/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/22/2022 9:35:30 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/22/2022 9:35:30 PM
Surr: DNOP	89.5	51.1-141		%Rec	1	2/22/2022 9:35:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/19/2022 4:15:00 PM
Surr: BFB	99.4	70-130		%Rec	1	2/19/2022 4:15:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	2/19/2022 4:15:00 PM
Toluene	ND	0.049		mg/Kg	1	2/19/2022 4:15:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/19/2022 4:15:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/19/2022 4:15:00 PM
Surr: 4-Bromofluorobenzene	88.1	70-130		%Rec	1	2/19/2022 4:15:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	2/23/2022 1:47:50 AM

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

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

Analytical Report

Lab Order **2202830**

Date Reported: 2/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-08 6.5'

Project: Nymeyer A 1

Collection Date: 2/15/2022 11:00:00 AM

Lab ID: 2202830-005

Matrix: SOIL

Received Date: 2/17/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	500	10		mg/Kg	1	2/22/2022 9:49:51 PM
Motor Oil Range Organics (MRO)	310	50		mg/Kg	1	2/22/2022 9:49:51 PM
Surr: DNOP	80.5	51.1-141		%Rec	1	2/22/2022 9:49:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/19/2022 4:34:00 PM
Surr: BFB	115	70-130		%Rec	1	2/19/2022 4:34:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	2/19/2022 4:34:00 PM
Toluene	ND	0.047		mg/Kg	1	2/19/2022 4:34:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/19/2022 4:34:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	2/19/2022 4:34:00 PM
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	2/19/2022 4:34:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1100	60		mg/Kg	20	2/23/2022 2:00:15 AM

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

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

Analytical Report

Lab Order **2202830**

Date Reported: 2/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-09 8'

Project: Nymeyer A 1

Collection Date: 2/15/2022 11:15:00 AM

Lab ID: 2202830-006

Matrix: SOIL

Received Date: 2/17/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/22/2022 10:03:58 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/22/2022 10:03:58 PM
Surr: DNOP	85.9	51.1-141		%Rec	1	2/22/2022 10:03:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/19/2022 4:54:00 PM
Surr: BFB	103	70-130		%Rec	1	2/19/2022 4:54:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	2/19/2022 4:54:00 PM
Toluene	ND	0.046		mg/Kg	1	2/19/2022 4:54:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	2/19/2022 4:54:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	2/19/2022 4:54:00 PM
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	2/19/2022 4:54:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	2/23/2022 2:12:40 AM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202830

28-Feb-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: MB-65736	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 65736	RunNo: 85985								
Prep Date: 2/22/2022	Analysis Date: 2/22/2022	SeqNo: 3030667	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-65736	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 65736	RunNo: 85985								
Prep Date: 2/22/2022	Analysis Date: 2/22/2022	SeqNo: 3030668	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.8	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202830

28-Feb-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: MB-65649	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 65649	RunNo: 85962								
Prep Date: 2/18/2022	Analysis Date: 2/21/2022	SeqNo: 3028002	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		106	51.1	141			

Sample ID: LCS-65649	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 65649	RunNo: 85962								
Prep Date: 2/18/2022	Analysis Date: 2/21/2022	SeqNo: 3028003	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	68.9	135			
Surr: DNOP	5.3		5.000		107	51.1	141			

Sample ID: LCS-65729	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 65729	RunNo: 86029								
Prep Date: 2/22/2022	Analysis Date: 2/23/2022	SeqNo: 3032027	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		89.2	51.1	141			

Sample ID: MB-65729	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 65729	RunNo: 86029								
Prep Date: 2/22/2022	Analysis Date: 2/23/2022	SeqNo: 3032030	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.4		10.00		93.9	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202830

28-Feb-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: ics-65624	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 65624	RunNo: 85948								
Prep Date: 2/17/2022	Analysis Date: 2/19/2022	SeqNo: 3027147	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	78.6	131			
Surr: BFB	1300		1000		129	70	130			

Sample ID: mb-65624	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 65624	RunNo: 85948								
Prep Date: 2/17/2022	Analysis Date: 2/19/2022	SeqNo: 3027148	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	1200		1000		115	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2202830

28-Feb-22

Client: Vertex Resources Services, Inc.

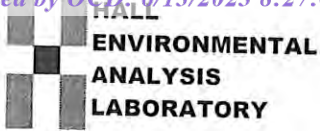
Project: Nymeyer A 1

Sample ID: lcs-65624	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 65624		RunNo: 85948							
Prep Date: 2/17/2022	Analysis Date: 2/19/2022		SeqNo: 3027211		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.8	80	120			
Toluene	0.93	0.050	1.000	0	93.1	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.1	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.3	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: mb-65624	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 65624		RunNo: 85948							
Prep Date: 2/17/2022	Analysis Date: 2/19/2022		SeqNo: 3027212		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: **Vertex Resources Services, Inc.** Work Order Number: **2202830** RcptNo: **1**

Received By: **Cheyenne Cason** 2/17/2022 8:00:00 AM *Cason*
Completed By: **Cheyenne Cason** 2/17/2022 8:47:12 AM *Cason*
Reviewed By: *[Signature]* 2-17-22

Chain of Custody

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

Log In

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

of preserved bottles checked for pH:
(<2 or >12 unless noted)
Adjusted?
Checked by: *Cason 2/17/22*

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Not Present			
2	4.8	Good	Not Present			

Chain-of-Custody Record

Client: KLEEX

Mailing Address: on file

Phone #:

email or Fax#:

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation: AZ Compliance NELAC Other

EDD (Type)

Turn-Around Time: 5-Day

Standard Rush

Project Name: Nymeyer A#1

Project #: 22E-00196

Project Manager: Dennis Williams

Sampler: Charee Dixon

On Ice: Yes No

of Coolers: 2 1, 2-0-12

Cooler Temp (including CF): 4.8-0 = 4.8 (°C)

Container Type and # 4 oz

Preservative Type Ice

HEAL No. 2202830

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

PCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Analysis Request	
BTEX / MTBE / TMB's (8021)	<u> </u>
PCRA 8 Metals	<u> </u>
PAHs by 8310 or 8270SIMS	<u> </u>
EDB (Method 504.1)	<u> </u>
PCRA 8 Metals	<u> </u>
Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	<u> </u>
8260 (VOA)	<u> </u>
8270 (Semi-VOA)	<u> </u>
Total Coliform (Present/Absent)	<u> </u>

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2/15	8:30	SOI	BH22-01 4'	4 oz	Ice	2202830
	8:45		BH22-05 4'			001
	9:00		BH22-10 2'			002
	9:15		BH22-11 2'			003
	11:00		BH22-08 6.5'			004
	11:15		BH22-09 8'			005
						006
						007

Received by: Date: 2/16/22 Time: 9:00

Received by: Date: Time:

Relinquished by: Date: Time:

Relinquished by: Date: 2/16/22 Time: 19:00

Remarks: CC: Charee Dixon

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.

Analytical Report

Lab Order **2203663**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-01 6'

Project: Nymeyer H 1

Collection Date: 3/9/2022 9:00:00 AM

Lab ID: 2203663-001

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/16/2022 1:44:45 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/16/2022 1:44:45 PM
Surr: DNOP	104	51.1-141		%Rec	1	3/16/2022 1:44:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/14/2022 12:02:00 PM
Surr: BFB	103	70-130		%Rec	1	3/14/2022 12:02:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/14/2022 12:02:00 PM
Toluene	ND	0.048		mg/Kg	1	3/14/2022 12:02:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/14/2022 12:02:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/14/2022 12:02:00 PM
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	3/14/2022 12:02:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/17/2022 11:54:20 AM

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

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

Analytical Report

Lab Order **2203663**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-06 2'

Project: Nymeyer H 1

Collection Date: 3/9/2022 9:05:00 AM

Lab ID: 2203663-002

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/16/2022 1:55:33 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/16/2022 1:55:33 PM
Surr: DNOP	82.6	51.1-141		%Rec	1	3/16/2022 1:55:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/14/2022 1:01:00 PM
Surr: BFB	107	70-130		%Rec	1	3/14/2022 1:01:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/14/2022 1:01:00 PM
Toluene	ND	0.048		mg/Kg	1	3/14/2022 1:01:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/14/2022 1:01:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/14/2022 1:01:00 PM
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	3/14/2022 1:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/17/2022 12:31:32 PM

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

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

Analytical Report

Lab Order **2203663**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-07 2'

Project: Nymeyer H 1

Collection Date: 3/9/2022 9:10:00 AM

Lab ID: 2203663-003

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/16/2022 2:06:20 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/16/2022 2:06:20 PM
Surr: DNOP	97.9	51.1-141		%Rec	1	3/16/2022 2:06:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/14/2022 2:00:00 PM
Surr: BFB	98.4	70-130		%Rec	1	3/14/2022 2:00:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/14/2022 2:00:00 PM
Toluene	ND	0.048		mg/Kg	1	3/14/2022 2:00:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/14/2022 2:00:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/14/2022 2:00:00 PM
Surr: 4-Bromofluorobenzene	85.7	70-130		%Rec	1	3/14/2022 2:00:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/17/2022 12:43:56 PM

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

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

Analytical Report

Lab Order **2203663**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-08 8'

Project: Nymeyer H 1

Collection Date: 3/9/2022 9:15:00 AM

Lab ID: 2203663-004

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/16/2022 2:17:10 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/16/2022 2:17:10 PM
Surr: DNOP	118	51.1-141		%Rec	1	3/16/2022 2:17:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/14/2022 2:19:00 PM
Surr: BFB	99.5	70-130		%Rec	1	3/14/2022 2:19:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/14/2022 2:19:00 PM
Toluene	ND	0.047		mg/Kg	1	3/14/2022 2:19:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/14/2022 2:19:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	3/14/2022 2:19:00 PM
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	3/14/2022 2:19:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/17/2022 12:56:20 PM

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

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

Analytical Report

Lab Order **2203663**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-17 0'

Project: Nymeyer H 1

Collection Date: 3/9/2022 9:20:00 AM

Lab ID: 2203663-005

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/16/2022 2:40:46 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/16/2022 2:40:46 PM
Surr: DNOP	93.6	51.1-141		%Rec	1	3/16/2022 2:40:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/14/2022 2:39:00 PM
Surr: BFB	106	70-130		%Rec	1	3/14/2022 2:39:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	3/14/2022 2:39:00 PM
Toluene	ND	0.050		mg/Kg	1	3/14/2022 2:39:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/14/2022 2:39:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/14/2022 2:39:00 PM
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	3/14/2022 2:39:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/17/2022 1:08:44 PM

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

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

Analytical Report

Lab Order **2203663**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-17 2'

Project: Nymeyer H 1

Collection Date: 3/9/2022 9:25:00 AM

Lab ID: 2203663-006

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/16/2022 2:51:35 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/16/2022 2:51:35 PM
Surr: DNOP	100	51.1-141		%Rec	1	3/16/2022 2:51:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/14/2022 2:59:00 PM
Surr: BFB	106	70-130		%Rec	1	3/14/2022 2:59:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/14/2022 2:59:00 PM
Toluene	ND	0.048		mg/Kg	1	3/14/2022 2:59:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/14/2022 2:59:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/14/2022 2:59:00 PM
Surr: 4-Bromofluorobenzene	89.9	70-130		%Rec	1	3/14/2022 2:59:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/17/2022 1:21:08 PM

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

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

Analytical Report

Lab Order **2203663**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-18 0'

Project: Nymeyer H 1

Collection Date: 3/9/2022 9:30:00 AM

Lab ID: 2203663-007

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/16/2022 3:02:27 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/16/2022 3:02:27 PM
Surr: DNOP	82.9	51.1-141		%Rec	1	3/16/2022 3:02:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	3/14/2022 3:19:00 PM
Surr: BFB	104	70-130		%Rec	1	3/14/2022 3:19:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/14/2022 3:19:00 PM
Toluene	ND	0.046		mg/Kg	1	3/14/2022 3:19:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	3/14/2022 3:19:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	3/14/2022 3:19:00 PM
Surr: 4-Bromofluorobenzene	88.9	70-130		%Rec	1	3/14/2022 3:19:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/17/2022 1:58:22 PM

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

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

Analytical Report

Lab Order **2203663**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-18 2'

Project: Nymeyer H 1

Collection Date: 3/9/2022 9:35:00 AM

Lab ID: 2203663-008

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/16/2022 3:13:24 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/16/2022 3:13:24 PM
Surr: DNOP	89.3	51.1-141		%Rec	1	3/16/2022 3:13:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/14/2022 3:38:00 PM
Surr: BFB	102	70-130		%Rec	1	3/14/2022 3:38:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/14/2022 3:38:00 PM
Toluene	ND	0.047		mg/Kg	1	3/14/2022 3:38:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/14/2022 3:38:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	3/14/2022 3:38:00 PM
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	3/14/2022 3:38:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/17/2022 2:10:47 PM

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

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

Analytical Report

Lab Order **2203663**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-19 0'

Project: Nymeyer H 1

Collection Date: 3/9/2022 9:40:00 AM

Lab ID: 2203663-009

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/16/2022 3:24:24 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/16/2022 3:24:24 PM
Surr: DNOP	99.0	51.1-141		%Rec	1	3/16/2022 3:24:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/14/2022 3:58:00 PM
Surr: BFB	102	70-130		%Rec	1	3/14/2022 3:58:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/14/2022 3:58:00 PM
Toluene	ND	0.048		mg/Kg	1	3/14/2022 3:58:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/14/2022 3:58:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/14/2022 3:58:00 PM
Surr: 4-Bromofluorobenzene	87.3	70-130		%Rec	1	3/14/2022 3:58:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	61		mg/Kg	20	3/17/2022 2:23:11 PM

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

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

Analytical Report

Lab Order **2203663**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-19 2'

Project: Nymeyer H 1

Collection Date: 3/9/2022 9:45:00 AM

Lab ID: 2203663-010

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/16/2022 3:35:21 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/16/2022 3:35:21 PM
Surr: DNOP	99.1	51.1-141		%Rec	1	3/16/2022 3:35:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/14/2022 4:18:00 PM
Surr: BFB	101	70-130		%Rec	1	3/14/2022 4:18:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	3/14/2022 4:18:00 PM
Toluene	ND	0.047		mg/Kg	1	3/14/2022 4:18:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/14/2022 4:18:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	3/14/2022 4:18:00 PM
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	3/14/2022 4:18:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/17/2022 2:35:35 PM

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

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

Analytical Report

Lab Order **2203663**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-20 0'

Project: Nymeyer H 1

Collection Date: 3/9/2022 9:50:00 AM

Lab ID: 2203663-011

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/16/2022 3:46:18 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/16/2022 3:46:18 PM
Surr: DNOP	80.8	51.1-141		%Rec	1	3/16/2022 3:46:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/14/2022 4:57:00 PM
Surr: BFB	101	70-130		%Rec	1	3/14/2022 4:57:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/14/2022 4:57:00 PM
Toluene	ND	0.047		mg/Kg	1	3/14/2022 4:57:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/14/2022 4:57:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	3/14/2022 4:57:00 PM
Surr: 4-Bromofluorobenzene	86.5	70-130		%Rec	1	3/14/2022 4:57:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/17/2022 2:48:00 PM

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

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

Analytical Report

Lab Order **2203663**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-20 2'

Project: Nymeyer H 1

Collection Date: 3/9/2022 9:55:00 AM

Lab ID: 2203663-012

Matrix: SOIL

Received Date: 3/11/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/16/2022 3:57:14 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/16/2022 3:57:14 PM
Surr: DNOP	91.4	51.1-141		%Rec	1	3/16/2022 3:57:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/14/2022 5:17:00 PM
Surr: BFB	100	70-130		%Rec	1	3/14/2022 5:17:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	3/14/2022 5:17:00 PM
Toluene	ND	0.047		mg/Kg	1	3/14/2022 5:17:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/14/2022 5:17:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	3/14/2022 5:17:00 PM
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	3/14/2022 5:17:00 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	ND	60		mg/Kg	20	3/17/2022 3:00:24 PM

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

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



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

April 12, 2022

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

RE: Nymeyer A 1

OrderNo.: 2203F78

Dear Dennis Williams:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/30/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2203F78**

Date Reported: **4/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-01 2'

Project: Nymeyer A 1

Collection Date: 3/28/2022 11:00:00 AM

Lab ID: 2203F78-001

Matrix: SOIL

Received Date: 3/30/2022 9:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/1/2022 9:29:07 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/1/2022 9:29:07 AM
Surr: DNOP	110	51.1-141		%Rec	1	4/1/2022 9:29:07 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/1/2022 12:49:23 AM
Surr: BFB	101	37.7-212		%Rec	1	4/1/2022 12:49:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/1/2022 12:49:23 AM
Toluene	ND	0.048		mg/Kg	1	4/1/2022 12:49:23 AM
Ethylbenzene	ND	0.048		mg/Kg	1	4/1/2022 12:49:23 AM
Xylenes, Total	ND	0.096		mg/Kg	1	4/1/2022 12:49:23 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/1/2022 12:49:23 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	220	61		mg/Kg	20	4/6/2022 1:01:48 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203F78

12-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: MB-66668	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66668	RunNo: 87045								
Prep Date: 4/6/2022	Analysis Date: 4/6/2022	SeqNo: 3077511	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66668	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66668	RunNo: 87045								
Prep Date: 4/6/2022	Analysis Date: 4/6/2022	SeqNo: 3077512	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.9	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203F78

12-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: LCS-66507	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66507	RunNo: 86887								
Prep Date: 3/30/2022	Analysis Date: 3/31/2022	SeqNo: 3069715	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.1	68.9	135			
Surr: DNOP	3.8		5.000		75.1	51.1	141			

Sample ID: MB-66507	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66507	RunNo: 86887								
Prep Date: 3/30/2022	Analysis Date: 3/31/2022	SeqNo: 3069718	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		88.8	51.1	141			

Sample ID: MB-66524	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66524	RunNo: 86902								
Prep Date: 3/31/2022	Analysis Date: 4/1/2022	SeqNo: 3071848	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		98.5	51.1	141			

Sample ID: LCS-66524	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66524	RunNo: 86902								
Prep Date: 3/31/2022	Analysis Date: 4/1/2022	SeqNo: 3071850	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		89.8	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203F78

12-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: ics-66501	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 66501	RunNo: 86898								
Prep Date: 3/30/2022	Analysis Date: 3/31/2022	SeqNo: 3070030	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	72.3	137			
Surr: BFB	2100		1000		212	37.7	212			

Sample ID: mb-66501	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66501	RunNo: 86898								
Prep Date: 3/30/2022	Analysis Date: 3/31/2022	SeqNo: 3070031	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.1	37.7	212			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2203F78

12-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: LCS-66501	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66501	RunNo: 86898								
Prep Date: 3/30/2022	Analysis Date: 3/31/2022	SeqNo: 3070054	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.4	80	120			
Toluene	0.90	0.050	1.000	0	90.4	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: mb-66501	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66501	RunNo: 86898								
Prep Date: 3/30/2022	Analysis Date: 3/31/2022	SeqNo: 3070055	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2203F78 RcptNo: 1

Received By: Juan Rojas 3/30/2022 9:15:00 AM
Completed By: Sean Livingston 3/30/2022 10:44:18 AM
Reviewed By: IO 3/30/22

Handwritten signatures and initials: Juan Rojas, Sean Livingston

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: TMC 3/30/22

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Table with 7 columns: Cooler No, Temp °C, Condition, Seal Intact, Seal No, Seal Date, Signed By. Row 1: 1, 2.5, Good, [checked], [], [], []

Analytical Report

Lab Order **2203G96**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-01 4'

Project: Nymeyer A 1

Collection Date: 3/29/2022 11:00:00 AM

Lab ID: 2203G96-001

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/6/2022 8:25:10 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/6/2022 8:25:10 PM
Surr: DNOP	80.6	51.1-141		%Rec	1	4/6/2022 8:25:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/5/2022 12:58:00 PM
Surr: BFB	93.5	37.7-212		%Rec	1	4/5/2022 12:58:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/5/2022 12:58:00 PM
Toluene	ND	0.049		mg/Kg	1	4/5/2022 12:58:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	4/5/2022 12:58:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	4/5/2022 12:58:00 PM
Surr: 4-Bromofluorobenzene	77.6	70-130		%Rec	1	4/5/2022 12:58:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	180	60		mg/Kg	20	4/6/2022 9:42:52 PM

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

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

Analytical Report

Lab Order **2203G96**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-02 2'

Project: Nymeyer A 1

Collection Date: 3/29/2022 11:05:00 AM

Lab ID: 2203G96-002

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/7/2022 10:44:05 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/7/2022 10:44:05 AM
Surr: DNOP	80.6	51.1-141		%Rec	1	4/7/2022 10:44:05 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/5/2022 1:18:00 PM
Surr: BFB	96.4	37.7-212		%Rec	1	4/5/2022 1:18:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/5/2022 1:18:00 PM
Toluene	ND	0.047		mg/Kg	1	4/5/2022 1:18:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	4/5/2022 1:18:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	4/5/2022 1:18:00 PM
Surr: 4-Bromofluorobenzene	77.6	70-130		%Rec	1	4/5/2022 1:18:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	190	60		mg/Kg	20	4/6/2022 9:55:16 PM

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

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

Analytical Report

Lab Order **2203G96**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-02 4'

Project: Nymeyer A 1

Collection Date: 3/29/2022 11:10:00 AM

Lab ID: 2203G96-003

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/6/2022 8:57:03 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/6/2022 8:57:03 PM
Surr: DNOP	70.6	51.1-141		%Rec	1	4/6/2022 8:57:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/5/2022 1:38:00 PM
Surr: BFB	93.4	37.7-212		%Rec	1	4/5/2022 1:38:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/5/2022 1:38:00 PM
Toluene	ND	0.046		mg/Kg	1	4/5/2022 1:38:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	4/5/2022 1:38:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	4/5/2022 1:38:00 PM
Surr: 4-Bromofluorobenzene	78.1	70-130		%Rec	1	4/5/2022 1:38:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	180	60		mg/Kg	20	4/6/2022 10:32:29 PM

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

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

Analytical Report

Lab Order **2203G96**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-03 2'

Project: Nymeyer A 1

Collection Date: 3/29/2022 11:15:00 AM

Lab ID: 2203G96-004

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/6/2022 9:07:38 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/6/2022 9:07:38 PM
Surr: DNOP	66.1	51.1-141		%Rec	1	4/6/2022 9:07:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/5/2022 2:37:00 PM
Surr: BFB	97.4	37.7-212		%Rec	1	4/5/2022 2:37:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/5/2022 2:37:00 PM
Toluene	ND	0.048		mg/Kg	1	4/5/2022 2:37:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/5/2022 2:37:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	4/5/2022 2:37:00 PM
Surr: 4-Bromofluorobenzene	80.4	70-130		%Rec	1	4/5/2022 2:37:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	200	60		mg/Kg	20	4/6/2022 10:44:53 PM

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

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

Analytical Report

Lab Order **2203G96**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-03 4'

Project: Nymeyer A 1

Collection Date: 3/29/2022 11:20:00 AM

Lab ID: 2203G96-005

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/6/2022 9:18:11 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/6/2022 9:18:11 PM
Surr: DNOP	82.4	51.1-141		%Rec	1	4/6/2022 9:18:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/5/2022 2:57:00 PM
Surr: BFB	97.5	37.7-212		%Rec	1	4/5/2022 2:57:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/5/2022 2:57:00 PM
Toluene	ND	0.048		mg/Kg	1	4/5/2022 2:57:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/5/2022 2:57:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	4/5/2022 2:57:00 PM
Surr: 4-Bromofluorobenzene	80.1	70-130		%Rec	1	4/5/2022 2:57:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	210	60		mg/Kg	20	4/6/2022 11:46:55 PM

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

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

Analytical Report

Lab Order **2203G96**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-01 8'

Project: Nymeyer A 1

Collection Date: 3/29/2022 11:25:00 AM

Lab ID: 2203G96-006

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/6/2022 9:28:44 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/6/2022 9:28:44 PM
Surr: DNOP	75.0	51.1-141		%Rec	1	4/6/2022 9:28:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/5/2022 3:17:00 PM
Surr: BFB	93.0	37.7-212		%Rec	1	4/5/2022 3:17:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/5/2022 3:17:00 PM
Toluene	ND	0.049		mg/Kg	1	4/5/2022 3:17:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	4/5/2022 3:17:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	4/5/2022 3:17:00 PM
Surr: 4-Bromofluorobenzene	75.7	70-130		%Rec	1	4/5/2022 3:17:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	200	60		mg/Kg	20	4/6/2022 11:59:20 PM

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

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

Analytical Report

Lab Order **2203G96**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-02 8'

Project: Nymeyer A 1

Collection Date: 3/29/2022 11:30:00 AM

Lab ID: 2203G96-007

Matrix: SOIL

Received Date: 3/31/2022 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/6/2022 9:39:16 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/6/2022 9:39:16 PM
Surr: DNOP	77.8	51.1-141		%Rec	1	4/6/2022 9:39:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/5/2022 3:36:00 PM
Surr: BFB	94.1	37.7-212		%Rec	1	4/5/2022 3:36:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.023		mg/Kg	1	4/5/2022 3:36:00 PM
Toluene	ND	0.046		mg/Kg	1	4/5/2022 3:36:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	4/5/2022 3:36:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	4/5/2022 3:36:00 PM
Surr: 4-Bromofluorobenzene	77.9	70-130		%Rec	1	4/5/2022 3:36:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	180	60		mg/Kg	20	4/7/2022 12:11:44 AM

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

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



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

April 12, 2022

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

RE: Nymeyer A 1

OrderNo.: 2204031

Dear Dennis Williams:

Hall Environmental Analysis Laboratory received 3 sample(s) on 4/1/2022 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,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2204031**

Date Reported: **4/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-04 1'

Project: Nymeyer A 1

Collection Date: 3/30/2022 2:00:00 PM

Lab ID: 2204031-001

Matrix: SOIL

Received Date: 4/1/2022 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: ED
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/5/2022 5:39:53 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/5/2022 5:39:53 PM
Surr: DNOP	80.5	51.1-141		%Rec	1	4/5/2022 5:39:53 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/8/2022 12:33:06 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JR
Benzene	ND	0.023		mg/Kg	1	4/6/2022 1:30:14 AM
Toluene	ND	0.046		mg/Kg	1	4/6/2022 1:30:14 AM
Ethylbenzene	ND	0.046		mg/Kg	1	4/6/2022 1:30:14 AM
Xylenes, Total	ND	0.092		mg/Kg	1	4/6/2022 1:30:14 AM
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	4/6/2022 1:30:14 AM
Surr: 4-Bromofluorobenzene	95.6	70-130		%Rec	1	4/6/2022 1:30:14 AM
Surr: Dibromofluoromethane	105	70-130		%Rec	1	4/6/2022 1:30:14 AM
Surr: Toluene-d8	99.0	70-130		%Rec	1	4/6/2022 1:30:14 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/6/2022 1:30:14 AM
Surr: BFB	105	70-130		%Rec	1	4/6/2022 1:30:14 AM

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

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

Analytical Report

Lab Order **2204031**

Date Reported: **4/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-03 2'

Project: Nymeyer A 1

Collection Date: 3/30/2022 2:05:00 PM

Lab ID: 2204031-002

Matrix: SOIL

Received Date: 4/1/2022 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: ED
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/5/2022 6:04:22 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/5/2022 6:04:22 PM
Surr: DNOP	70.0	51.1-141		%Rec	1	4/5/2022 6:04:22 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	580	60		mg/Kg	20	4/8/2022 12:45:27 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	4/6/2022 1:58:46 AM
Toluene	ND	0.049		mg/Kg	1	4/6/2022 1:58:46 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2022 1:58:46 AM
Xylenes, Total	ND	0.098		mg/Kg	1	4/6/2022 1:58:46 AM
Surr: 1,2-Dichloroethane-d4	109	70-130		%Rec	1	4/6/2022 1:58:46 AM
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	4/6/2022 1:58:46 AM
Surr: Dibromofluoromethane	112	70-130		%Rec	1	4/6/2022 1:58:46 AM
Surr: Toluene-d8	97.8	70-130		%Rec	1	4/6/2022 1:58:46 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2022 1:58:46 AM
Surr: BFB	101	70-130		%Rec	1	4/6/2022 1:58:46 AM

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

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

Analytical Report

Lab Order **2204031**

Date Reported: **4/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-04 2'

Project: Nymeyer A 1

Collection Date: 3/30/2022 2:10:00 PM

Lab ID: 2204031-003

Matrix: SOIL

Received Date: 4/1/2022 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: ED
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/5/2022 6:29:09 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/5/2022 6:29:09 PM
Surr: DNOP	72.1	51.1-141		%Rec	1	4/5/2022 6:29:09 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	440	60		mg/Kg	20	4/8/2022 12:57:47 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	4/6/2022 2:27:24 AM
Toluene	ND	0.049		mg/Kg	1	4/6/2022 2:27:24 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2022 2:27:24 AM
Xylenes, Total	ND	0.097		mg/Kg	1	4/6/2022 2:27:24 AM
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	4/6/2022 2:27:24 AM
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	4/6/2022 2:27:24 AM
Surr: Dibromofluoromethane	108	70-130		%Rec	1	4/6/2022 2:27:24 AM
Surr: Toluene-d8	96.2	70-130		%Rec	1	4/6/2022 2:27:24 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2022 2:27:24 AM
Surr: BFB	101	70-130		%Rec	1	4/6/2022 2:27:24 AM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204031

12-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: MB-66705	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66705	RunNo: 87092								
Prep Date: 4/7/2022	Analysis Date: 4/7/2022	SeqNo: 3078859	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66705	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66705	RunNo: 87092								
Prep Date: 4/7/2022	Analysis Date: 4/7/2022	SeqNo: 3078860	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.0	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204031

12-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: LCS-66611	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66611	RunNo: 87027								
Prep Date: 4/4/2022	Analysis Date: 4/5/2022	SeqNo: 3075308	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.3	68.9	135			
Surr: DNOP	5.1		5.000		102	51.1	141			

Sample ID: MB-66611	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66611	RunNo: 87027								
Prep Date: 4/4/2022	Analysis Date: 4/5/2022	SeqNo: 3075310	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	9.4		10.00		93.7	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204031

12-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: ics-66586	SampType: LCS	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: LCSS	Batch ID: 66586	RunNo: 86972								
Prep Date: 4/1/2022	Analysis Date: 4/4/2022	SeqNo: 3078655	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.7	70	130			
Toluene	0.97	0.050	1.000	0	96.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.0	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.5	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		92.0	70	130			
Surr: Toluene-d8	0.51		0.5000		103	70	130			

Sample ID: mb-66586	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 66586	RunNo: 86972								
Prep Date: 4/1/2022	Analysis Date: 4/4/2022	SeqNo: 3078657	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	0.48		0.5000		95.5	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.2	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		95.7	70	130			
Surr: Toluene-d8	0.51		0.5000		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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204031

12-Apr-22

Client: Vertex Resources Services, Inc.

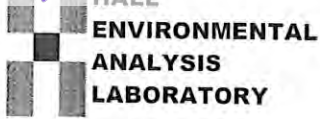
Project: Nymeyer A 1

Sample ID: ics-66586	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 66586	RunNo: 86972								
Prep Date: 4/1/2022	Analysis Date: 4/4/2022	SeqNo: 3073267	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	70	130			
Surr: BFB	510		500.0		102	70	130			

Sample ID: mb-66586	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 66586	RunNo: 86972								
Prep Date: 4/1/2022	Analysis Date: 4/4/2022	SeqNo: 3073268	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	510		500.0		102	70	130			

Qualifiers:

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



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

Sample Log-In Check List

Client Name: **Vertex Resources Services, Inc.** Work Order Number: **2204031** RcptNo: 1

Received By: **Tracy Casarrubias** 4/1/2022 9:50:00 AM
Completed By: **Cheyenne Cason** 4/1/2022 10:32:34 AM *Check*
Reviewed By: **JO** 4/1/22

Chain of Custody

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

Log In

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

of preserved bottles checked for pH:
(<2 or >12 unless noted)

Adjusted?
Checked by: *KPG 4/1/22*

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.7	Good	Not Present			

Chain-of-Custody Record

Client: VerdeX

Standard Rush

Mailing Address: on file

Project Name: Nymer A #1

Phone #: _____

email or Fax#: _____

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other

EDD (Type) _____

Project Manager: Dennis Williams

Sampler: Chance Dixon

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CP): 3.8 - 0.1 = 3.7 (°C)

Container Type and #

HEAL No.

2204031

Preservative Type

ICE

Date Time Matrix Sample Name

3/30 2:00

SO17

WES22-04 1'

1

1

DES22-03 2'

853

2:10

1

DES22-04 2'

001

002

003

Date: _____

Relinquished by: _____

Received by: [Signature]

Date: 3/31/22

Time: 8:45

Date: 3/31/22

Relinquished by: [Signature]

Received by: [Signature]

Date: 4/1/22

Time: 9:50

Analysis Request

TPH:8015D(GRO / DRO / MRO)

BTEX) MTBE / TMB's (8021)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

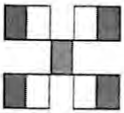
Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Remarks: CC: Chance Dixon



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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



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

April 12, 2022

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

RE: Nymeyer A 1

OrderNo.: 2204120

Dear Dennis Williams:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/5/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2204120**

Date Reported: **4/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-05 1'

Project: Nymeyer A 1

Collection Date: 3/31/2022 2:00:00 PM

Lab ID: 2204120-001

Matrix: SOIL

Received Date: 4/5/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/7/2022 5:59:11 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/7/2022 5:59:11 PM
Surr: DNOP	82.9	51.1-141		%Rec	1	4/7/2022 5:59:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/6/2022 10:34:00 PM
Surr: BFB	102	37.7-212		%Rec	1	4/6/2022 10:34:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/6/2022 10:34:00 PM
Toluene	ND	0.048		mg/Kg	1	4/6/2022 10:34:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/6/2022 10:34:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	4/6/2022 10:34:00 PM
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	4/6/2022 10:34:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	170	60		mg/Kg	20	4/9/2022 12:37:04 AM

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

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

Analytical Report

Lab Order **2204120**

Date Reported: **4/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-06 1'

Project: Nymeyer A 1

Collection Date: 3/31/2022 2:05:00 PM

Lab ID: 2204120-002

Matrix: SOIL

Received Date: 4/5/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	11	9.7		mg/Kg	1	4/7/2022 6:10:09 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/7/2022 6:10:09 PM
Surr: DNOP	82.6	51.1-141		%Rec	1	4/7/2022 6:10:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2022 10:54:00 PM
Surr: BFB	98.7	37.7-212		%Rec	1	4/6/2022 10:54:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/6/2022 10:54:00 PM
Toluene	ND	0.049		mg/Kg	1	4/6/2022 10:54:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2022 10:54:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	4/6/2022 10:54:00 PM
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	4/6/2022 10:54:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	160	60		mg/Kg	20	4/9/2022 12:49:24 AM

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

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

Analytical Report

Lab Order **2204120**

Date Reported: **4/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-05 2'

Project: Nymeyer A 1

Collection Date: 3/31/2022 2:10:00 PM

Lab ID: 2204120-003

Matrix: SOIL

Received Date: 4/5/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/7/2022 10:28:35 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/7/2022 10:28:35 PM
Surr: DNOP	74.5	51.1-141		%Rec	1	4/7/2022 10:28:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/7/2022 12:13:00 AM
Surr: BFB	103	37.7-212		%Rec	1	4/7/2022 12:13:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/7/2022 12:13:00 AM
Toluene	ND	0.048		mg/Kg	1	4/7/2022 12:13:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	4/7/2022 12:13:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	4/7/2022 12:13:00 AM
Surr: 4-Bromofluorobenzene	87.1	70-130		%Rec	1	4/7/2022 12:13:00 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	150	60		mg/Kg	20	4/9/2022 1:01:44 AM

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

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

Analytical Report

Lab Order **2204120**

Date Reported: **4/12/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-07 1'

Project: Nymeyer A 1

Collection Date: 3/31/2022 3:00:00 PM

Lab ID: 2204120-004

Matrix: SOIL

Received Date: 4/5/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	11	9.6		mg/Kg	1	4/7/2022 10:39:13 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/7/2022 10:39:13 PM
Surr: DNOP	85.4	51.1-141		%Rec	1	4/7/2022 10:39:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/7/2022 1:52:00 AM
Surr: BFB	103	37.7-212		%Rec	1	4/7/2022 1:52:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/7/2022 1:52:00 AM
Toluene	ND	0.048		mg/Kg	1	4/7/2022 1:52:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	4/7/2022 1:52:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	4/7/2022 1:52:00 AM
Surr: 4-Bromofluorobenzene	86.6	70-130		%Rec	1	4/7/2022 1:52:00 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	190	61		mg/Kg	20	4/9/2022 1:14:06 AM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204120

12-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: MB-66741	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66741	RunNo: 87132								
Prep Date: 4/8/2022	Analysis Date: 4/8/2022	SeqNo: 3080744	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66741	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66741	RunNo: 87132								
Prep Date: 4/8/2022	Analysis Date: 4/8/2022	SeqNo: 3080745	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204120

12-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: 2204120-003AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BES22-05 2'	Batch ID: 66672	RunNo: 87064								
Prep Date: 4/6/2022	Analysis Date: 4/7/2022	SeqNo: 3078597	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.05	6.483	82.8	36.1	154			
Surr: DNOP	4.4		5.005		87.4	51.1	141			

Sample ID: 2204120-003AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BES22-05 2'	Batch ID: 66672	RunNo: 87064								
Prep Date: 4/6/2022	Analysis Date: 4/8/2022	SeqNo: 3078598	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.25	6.483	71.3	36.1	154	12.5	33.9	
Surr: DNOP	3.7		5.025		73.3	51.1	141	0	0	

Sample ID: LCS-66671	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66671	RunNo: 87064								
Prep Date: 4/6/2022	Analysis Date: 4/7/2022	SeqNo: 3078635	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.8	68.9	135			
Surr: DNOP	5.0		5.000		100	51.1	141			

Sample ID: LCS-66672	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66672	RunNo: 87064								
Prep Date: 4/6/2022	Analysis Date: 4/7/2022	SeqNo: 3078636	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.5	68.9	135			
Surr: DNOP	4.3		5.000		86.4	51.1	141			

Sample ID: MB-66671	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66671	RunNo: 87064								
Prep Date: 4/6/2022	Analysis Date: 4/7/2022	SeqNo: 3078638	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.5		10.00		84.6	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204120

12-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: MB-66672	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66672	RunNo: 87064								
Prep Date: 4/6/2022	Analysis Date: 4/7/2022	SeqNo: 3078639	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.5		10.00		85.1	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204120

12-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: ics-66633	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 66633		RunNo: 87055							
Prep Date: 4/5/2022	Analysis Date: 4/6/2022		SeqNo: 3076666		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	72.3	137			
Surr: BFB	2200		1000		224	37.7	212			S

Sample ID: mb-66633	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 66633		RunNo: 87055							
Prep Date: 4/5/2022	Analysis Date: 4/6/2022		SeqNo: 3076667		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	930		1000		92.9	37.7	212			

Sample ID: ics-66646	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 66646		RunNo: 87055							
Prep Date: 4/5/2022	Analysis Date: 4/6/2022		SeqNo: 3076701		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	72.3	137			
Surr: BFB	2300		1000		229	37.7	212			S

Sample ID: mb-66646	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 66646		RunNo: 87055							
Prep Date: 4/5/2022	Analysis Date: 4/6/2022		SeqNo: 3076702		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	37.7	212			

Sample ID: 2204120-003ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BES22-05 2'	Batch ID: 66646		RunNo: 87055							
Prep Date: 4/5/2022	Analysis Date: 4/7/2022		SeqNo: 3076704		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.8	24.06	0	127	70	130			
Surr: BFB	2400		962.5		249	37.7	212			S

Sample ID: 2204120-003amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BES22-05 2'	Batch ID: 66646		RunNo: 87055							
Prep Date: 4/5/2022	Analysis Date: 4/7/2022		SeqNo: 3076706		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204120

12-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: 2204120-003amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BES22-05 2'	Batch ID: 66646	RunNo: 87055								
Prep Date: 4/5/2022	Analysis Date: 4/7/2022	SeqNo: 3076706 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.8	23.92	0	121	70	130	4.90	20	
Surr: BFB	2300		956.9		241	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204120

12-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: ics-66633	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 66633		RunNo: 87055							
Prep Date: 4/5/2022	Analysis Date: 4/6/2022		SeqNo: 3076724		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.0	80	120			
Toluene	0.90	0.050	1.000	0	90.2	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.5	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.5	80	120			
Surr: 4-Bromofluorobenzene	0.82		1.000		81.8	70	130			

Sample ID: mb-66633	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 66633		RunNo: 87055							
Prep Date: 4/5/2022	Analysis Date: 4/6/2022		SeqNo: 3076725		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	0.80		1.000		79.8	70	130			

Sample ID: ics-66646	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 66646		RunNo: 87055							
Prep Date: 4/5/2022	Analysis Date: 4/6/2022		SeqNo: 3076760		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.4	80	120			
Toluene	0.94	0.050	1.000	0	93.7	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.7	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		86.5	70	130			

Sample ID: mb-66646	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 66646		RunNo: 87055							
Prep Date: 4/5/2022	Analysis Date: 4/6/2022		SeqNo: 3076761		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.6	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204120

12-Apr-22

Client: Vertex Resources Services, Inc.

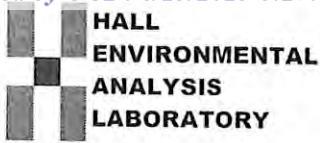
Project: Nymeyer A 1

Sample ID: 2204120-004ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: WES22-07 1'	Batch ID: 66646	RunNo: 87055								
Prep Date: 4/5/2022	Analysis Date: 4/7/2022	SeqNo: 3076764	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.024	0.9662	0	96.4	68.8	120			
Toluene	0.96	0.048	0.9662	0	99.6	73.6	124			
Ethylbenzene	0.98	0.048	0.9662	0	102	72.7	129			
Xylenes, Total	2.9	0.097	2.899	0	101	75.7	126			
Surr: 4-Bromofluorobenzene	0.85		0.9662		87.6	70	130			

Sample ID: 2204120-004amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: WES22-07 1'	Batch ID: 66646	RunNo: 87055								
Prep Date: 4/5/2022	Analysis Date: 4/7/2022	SeqNo: 3076765	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.024	0.9634	0	103	68.8	120	6.49	20	
Toluene	1.0	0.048	0.9634	0	108	73.6	124	7.46	20	
Ethylbenzene	1.1	0.048	0.9634	0	109	72.7	129	7.11	20	
Xylenes, Total	3.2	0.096	2.890	0	109	75.7	126	7.35	20	
Surr: 4-Bromofluorobenzene	0.84		0.9634		86.8	70	130	0	0	

Qualifiers:

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



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2204120 RcptNo: 1

Received By: Tracy Casarrubias 4/5/2022 8:00:00 AM

Completed By: Sean Livingston 4/5/2022 8:49:55 AM

Reviewed By: CMC 4/5/22

Signature of Sean Livingston

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by: JN 4/5/22

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

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

Chain-of-Custody Record

Turn-Around Time: 5 - Day

Client: WELLS

Standard Rush

Mailing Address: ON F12

Project Name: Nymeyer A #1

Phone #: _____

Project #: 22E-00196

email or Fax#: _____

Project Manager: Deann's Williams

QA/QC Package: Standard

Standard Level 4 (Full Validation)

Accreditation: Az Compliance

NELAC Other _____

EDD (Type) _____

Sampler: Chanel Dixon
 On Ice: Yes No
 # of Coolers: 2

Cooler Temp (including CF): 4.6 - 5.6 - 4.6 (°C)

Date: 3/31 Time: 2:00 Matrix: SO² Sample Name: WES22-05 1'

Container Type and #: 402 Preservative Type: ICE HEAL No. 2204120

Date: _____ Time: _____ Matrix: _____ Sample Name: _____

Container Type and #: _____ Preservative Type: _____ HEAL No. _____

Date: _____ Time: _____ Matrix: _____ Sample Name: _____

Container Type and #: _____ Preservative Type: _____ HEAL No. _____

Relinquished by: _____

Received by: _____ Via: _____ Date: 4/1/22 Time: 1130

Relinquished by: _____

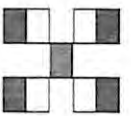
Received by: _____ Via: _____ Date: 4/1/22 Time: 8:00

Date: _____ Time: _____

Date: _____ Time: _____

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

Remarks: CC: Chanel Dixon



HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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



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

April 14, 2022

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

RE: Nymeyer A 1

OrderNo.: 2204119

Dear Dennis Williams:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/5/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order **2204119**

Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-08 3'

Project: Nymeyer A 1

Collection Date: 4/1/2022 11:00:00 AM

Lab ID: 2204119-001

Matrix: SOIL

Received Date: 4/5/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	170	8.8		mg/Kg	1	4/7/2022 4:42:44 PM
Motor Oil Range Organics (MRO)	94	44		mg/Kg	1	4/7/2022 4:42:44 PM
Surr: DNOP	75.8	51.1-141		%Rec	1	4/7/2022 4:42:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/6/2022 8:35:00 PM
Surr: BFB	102	37.7-212		%Rec	1	4/6/2022 8:35:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/6/2022 8:35:00 PM
Toluene	ND	0.048		mg/Kg	1	4/6/2022 8:35:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/6/2022 8:35:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	4/6/2022 8:35:00 PM
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	4/6/2022 8:35:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	95	59		mg/Kg	20	4/8/2022 10:33:38 PM

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

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

Analytical Report

Lab Order **2204119**

Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-08 6'

Project: Nymeyer A 1

Collection Date: 4/1/2022 11:05:00 AM

Lab ID: 2204119-002

Matrix: SOIL

Received Date: 4/5/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	78	9.6		mg/Kg	1	4/8/2022 2:02:45 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/8/2022 2:02:45 PM
Surr: DNOP	83.4	51.1-141		%Rec	1	4/8/2022 2:02:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/6/2022 8:55:00 PM
Surr: BFB	103	37.7-212		%Rec	1	4/6/2022 8:55:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/6/2022 8:55:00 PM
Toluene	ND	0.048		mg/Kg	1	4/6/2022 8:55:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/6/2022 8:55:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	4/6/2022 8:55:00 PM
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	4/6/2022 8:55:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	59		mg/Kg	20	4/8/2022 11:10:40 PM

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

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

Analytical Report

Lab Order **2204119**

Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-09 3'

Project: Nymeyer A 1

Collection Date: 4/1/2022 11:10:00 AM

Lab ID: 2204119-003

Matrix: SOIL

Received Date: 4/5/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	250	9.3		mg/Kg	1	4/7/2022 5:04:41 PM
Motor Oil Range Organics (MRO)	130	47		mg/Kg	1	4/7/2022 5:04:41 PM
Surr: DNOP	75.4	51.1-141		%Rec	1	4/7/2022 5:04:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/6/2022 9:15:00 PM
Surr: BFB	102	37.7-212		%Rec	1	4/6/2022 9:15:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/6/2022 9:15:00 PM
Toluene	ND	0.048		mg/Kg	1	4/6/2022 9:15:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/6/2022 9:15:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	4/6/2022 9:15:00 PM
Surr: 4-Bromofluorobenzene	84.1	70-130		%Rec	1	4/6/2022 9:15:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	290	60		mg/Kg	20	4/8/2022 11:47:42 PM

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

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

Analytical Report

Lab Order **2204119**

Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-09 6'

Project: Nymeyer A 1

Collection Date: 4/1/2022 11:15:00 AM

Lab ID: 2204119-004

Matrix: SOIL

Received Date: 4/5/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	180	9.5		mg/Kg	1	4/7/2022 5:15:38 PM
Motor Oil Range Organics (MRO)	110	47		mg/Kg	1	4/7/2022 5:15:38 PM
Surr: DNOP	74.6	51.1-141		%Rec	1	4/7/2022 5:15:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/6/2022 9:35:00 PM
Surr: BFB	105	37.7-212		%Rec	1	4/6/2022 9:35:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/6/2022 9:35:00 PM
Toluene	ND	0.048		mg/Kg	1	4/6/2022 9:35:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/6/2022 9:35:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	4/6/2022 9:35:00 PM
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	4/6/2022 9:35:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	320	60		mg/Kg	20	4/9/2022 12:00:02 AM

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

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

Analytical Report

Lab Order **2204119**

Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-10 3'

Project: Nymeyer A 1

Collection Date: 4/1/2022 11:20:00 AM

Lab ID: 2204119-005

Matrix: SOIL

Received Date: 4/5/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	92	9.4		mg/Kg	1	4/8/2022 2:23:54 PM
Motor Oil Range Organics (MRO)	59	47		mg/Kg	1	4/8/2022 2:23:54 PM
Surr: DNOP	76.6	51.1-141		%Rec	1	4/8/2022 2:23:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2022 9:55:00 PM
Surr: BFB	101	37.7-212		%Rec	1	4/6/2022 9:55:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/6/2022 9:55:00 PM
Toluene	ND	0.049		mg/Kg	1	4/6/2022 9:55:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2022 9:55:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	4/6/2022 9:55:00 PM
Surr: 4-Bromofluorobenzene	83.4	70-130		%Rec	1	4/6/2022 9:55:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	350	60		mg/Kg	20	4/9/2022 12:12:23 AM

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

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

Analytical Report

Lab Order **2204119**

Date Reported: **4/14/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-10 6'

Project: Nymeyer A 1

Collection Date: 4/1/2022 11:25:00 AM

Lab ID: 2204119-006

Matrix: SOIL

Received Date: 4/5/2022 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	110	10		mg/Kg	1	4/7/2022 5:37:29 PM
Motor Oil Range Organics (MRO)	80	51		mg/Kg	1	4/7/2022 5:37:29 PM
Surr: DNOP	75.2	51.1-141		%Rec	1	4/7/2022 5:37:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/6/2022 10:14:00 PM
Surr: BFB	100	37.7-212		%Rec	1	4/6/2022 10:14:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/6/2022 10:14:00 PM
Toluene	ND	0.048		mg/Kg	1	4/6/2022 10:14:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/6/2022 10:14:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	4/6/2022 10:14:00 PM
Surr: 4-Bromofluorobenzene	83.1	70-130		%Rec	1	4/6/2022 10:14:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	330	60		mg/Kg	20	4/9/2022 12:24:43 AM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204119

14-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: MB-66741	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66741	RunNo: 87132								
Prep Date: 4/8/2022	Analysis Date: 4/8/2022	SeqNo: 3080744	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66741	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66741	RunNo: 87132								
Prep Date: 4/8/2022	Analysis Date: 4/8/2022	SeqNo: 3080745	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.7	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204119

14-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: LCS-66671	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 66671	RunNo: 87064								
Prep Date: 4/6/2022	Analysis Date: 4/7/2022	SeqNo: 3078635	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.8	68.9	135			
Surr: DNOP	5.0		5.000		100	51.1	141			

Sample ID: MB-66671	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 66671	RunNo: 87064								
Prep Date: 4/6/2022	Analysis Date: 4/7/2022	SeqNo: 3078638	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.5		10.00		84.6	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204119

14-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: ics-66633	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 66633	RunNo: 87055								
Prep Date: 4/5/2022	Analysis Date: 4/6/2022	SeqNo: 3076666	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	72.3	137			
Surr: BFB	2200		1000		224	37.7	212			S

Sample ID: mb-66633	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66633	RunNo: 87055								
Prep Date: 4/5/2022	Analysis Date: 4/6/2022	SeqNo: 3076667	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	930		1000		92.9	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204119

14-Apr-22

Client: Vertex Resources Services, Inc.

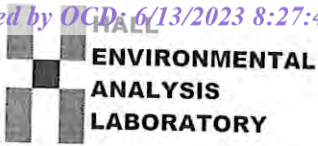
Project: Nymeyer A 1

Sample ID: ics-66633	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 66633	RunNo: 87055								
Prep Date: 4/5/2022	Analysis Date: 4/6/2022	SeqNo: 3076724	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.0	80	120			
Toluene	0.90	0.050	1.000	0	90.2	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.5	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.5	80	120			
Surr: 4-Bromofluorobenzene	0.82		1.000		81.8	70	130			

Sample ID: mb-66633	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66633	RunNo: 87055								
Prep Date: 4/5/2022	Analysis Date: 4/6/2022	SeqNo: 3076725	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	0.80		1.000		79.8	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc. Work Order Number: 2204119 RcptNo: 1

Received By: Tracy Casarrubias 4/5/2022 8:00:00 AM

Completed By: Sean Livingston 4/5/2022 8:42:45 AM

Reviewed By: *JMC* 4/5/22

Sean Livingston

Chain of Custody

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

Log In

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

of preserved bottles checked for pH:
(<2 or >12 unless noted)

Adjusted? _____

Checked by: *JMC 4/5/22*

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.6	Good				
2	5.6	Good				

Chain-of-Custody Record

Client: Verity
 Mailing Address: On File

Phone #: _____
 email or Fax#: _____

QA/QC Package: Standard Level 4 (Full Validation)
 Accreditation: Az Compliance Other _____
 NELAC EDD (Type) _____

Turn-Around Time: 5-099
 Standard Rush
 Project Name: Nymerger A #1
 Project #: 22E-00196

Project Manager: Dennis Williams

Sampler: CD
 On Ice: Yes No
 # of Coolers: 2
 Cooler Temp (including CF): 4.6 7.5 24.6 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
4/11	11:00	Soil	WES22-08 3'	402	Ice	001
	11:05		WES22-08 6'			002
	11:10		WES22-09 3'			003
	11:15		WES22-09 6'			004
	11:20		WES22-10 3'			005
	11:25		WES22-10 6'			006

Relinquished by: _____
 Received by: Mumwag Date: 4/12/22 Time: 11:30
 Via: _____
 Received by: _____ Date: 4/12/22 Time: 8:00



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

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

Remarks: CC: Chanel Dixon

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.

Analytical Report

Lab Order **2204285**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-11 1'

Project: Nymeyer A 1

Collection Date: 4/4/2022 2:00:00 PM

Lab ID: 2204285-001

Matrix: SOIL

Received Date: 4/7/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	170	10		mg/Kg	1	4/8/2022 3:48:45 PM
Motor Oil Range Organics (MRO)	120	50		mg/Kg	1	4/8/2022 3:48:45 PM
Surr: DNOP	88.8	51.1-141		%Rec	1	4/8/2022 3:48:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/8/2022 3:42:50 PM
Surr: BFB	94.9	37.7-212		%Rec	1	4/8/2022 3:42:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/8/2022 3:42:50 PM
Toluene	ND	0.047		mg/Kg	1	4/8/2022 3:42:50 PM
Ethylbenzene	ND	0.047		mg/Kg	1	4/8/2022 3:42:50 PM
Xylenes, Total	ND	0.094		mg/Kg	1	4/8/2022 3:42:50 PM
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	4/8/2022 3:42:50 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	380	61		mg/Kg	20	4/11/2022 10:34:32 PM

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

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

Analytical Report

Lab Order **2204285**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-12 1'

Project: Nymeyer A 1

Collection Date: 4/4/2022 2:05:00 PM

Lab ID: 2204285-002

Matrix: SOIL

Received Date: 4/7/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	200	9.8		mg/Kg	1	4/8/2022 3:59:29 PM
Motor Oil Range Organics (MRO)	150	49		mg/Kg	1	4/8/2022 3:59:29 PM
Surr: DNOP	90.2	51.1-141		%Rec	1	4/8/2022 3:59:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/8/2022 8:24:28 PM
Surr: BFB	91.5	37.7-212		%Rec	1	4/8/2022 8:24:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/8/2022 8:24:28 PM
Toluene	ND	0.049		mg/Kg	1	4/8/2022 8:24:28 PM
Ethylbenzene	ND	0.049		mg/Kg	1	4/8/2022 8:24:28 PM
Xylenes, Total	ND	0.098		mg/Kg	1	4/8/2022 8:24:28 PM
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	4/8/2022 8:24:28 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	21	3.0		mg/Kg	1	4/11/2022 10:46:56 PM

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

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

Analytical Report

Lab Order **2204285**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-13 1'

Project: Nymeyer A 1

Collection Date: 4/4/2022 2:10:00 PM

Lab ID: 2204285-003

Matrix: SOIL

Received Date: 4/7/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	370	10		mg/Kg	1	4/8/2022 4:21:06 PM
Motor Oil Range Organics (MRO)	240	50		mg/Kg	1	4/8/2022 4:21:06 PM
Surr: DNOP	106	51.1-141		%Rec	1	4/8/2022 4:21:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/8/2022 9:35:09 PM
Surr: BFB	89.4	37.7-212		%Rec	1	4/8/2022 9:35:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/8/2022 9:35:09 PM
Toluene	ND	0.048		mg/Kg	1	4/8/2022 9:35:09 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/8/2022 9:35:09 PM
Xylenes, Total	ND	0.096		mg/Kg	1	4/8/2022 9:35:09 PM
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	4/8/2022 9:35:09 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	480	60		mg/Kg	20	4/11/2022 11:24:09 PM

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

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

Analytical Report

Lab Order **2204285**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-06 2'

Project: Nymeyer A 1

Collection Date: 4/4/2022 2:15:00 PM

Lab ID: 2204285-004

Matrix: SOIL

Received Date: 4/7/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	11	9.1		mg/Kg	1	4/8/2022 4:42:44 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/8/2022 4:42:44 PM
Surr: DNOP	82.2	51.1-141		%Rec	1	4/8/2022 4:42:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/8/2022 9:58:43 PM
Surr: BFB	94.4	37.7-212		%Rec	1	4/8/2022 9:58:43 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/8/2022 9:58:43 PM
Toluene	ND	0.050		mg/Kg	1	4/8/2022 9:58:43 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/8/2022 9:58:43 PM
Xylenes, Total	ND	0.099		mg/Kg	1	4/8/2022 9:58:43 PM
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	4/8/2022 9:58:43 PM
EPA METHOD 300.0: ANIONS						Analyst: LRN
Chloride	900	60		mg/Kg	20	4/11/2022 11:36:34 PM

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

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

Analytical Report

Lab Order **2204285**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-07 2'

Project: Nymeyer A 1

Collection Date: 4/4/2022 2:20:00 PM

Lab ID: 2204285-005

Matrix: SOIL

Received Date: 4/7/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	12	9.4		mg/Kg	1	4/8/2022 4:53:36 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/8/2022 4:53:36 PM
Surr: DNOP	88.6	51.1-141		%Rec	1	4/8/2022 4:53:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/8/2022 10:22:15 PM
Surr: BFB	93.6	37.7-212		%Rec	1	4/8/2022 10:22:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/8/2022 10:22:15 PM
Toluene	ND	0.047		mg/Kg	1	4/8/2022 10:22:15 PM
Ethylbenzene	ND	0.047		mg/Kg	1	4/8/2022 10:22:15 PM
Xylenes, Total	ND	0.094		mg/Kg	1	4/8/2022 10:22:15 PM
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	4/8/2022 10:22:15 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	190	60		mg/Kg	20	4/13/2022 2:42:08 AM

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

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

Analytical Report

Lab Order **2204285**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-08 2'

Project: Nymeyer A 1

Collection Date: 4/4/2022 2:25:00 PM

Lab ID: 2204285-006

Matrix: SOIL

Received Date: 4/7/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	140	9.7		mg/Kg	1	4/8/2022 5:15:08 PM
Motor Oil Range Organics (MRO)	96	49		mg/Kg	1	4/8/2022 5:15:08 PM
Surr: DNOP	84.3	51.1-141		%Rec	1	4/8/2022 5:15:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/8/2022 10:45:42 PM
Surr: BFB	89.9	37.7-212		%Rec	1	4/8/2022 10:45:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/8/2022 10:45:42 PM
Toluene	ND	0.046		mg/Kg	1	4/8/2022 10:45:42 PM
Ethylbenzene	ND	0.046		mg/Kg	1	4/8/2022 10:45:42 PM
Xylenes, Total	ND	0.091		mg/Kg	1	4/8/2022 10:45:42 PM
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	4/8/2022 10:45:42 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	270	59		mg/Kg	20	4/13/2022 2:54:32 AM

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

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

Analytical Report

Lab Order **2204285**

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-09 2'

Project: Nymeyer A 1

Collection Date: 4/4/2022 2:30:00 PM

Lab ID: 2204285-007

Matrix: SOIL

Received Date: 4/7/2022 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	67	9.9		mg/Kg	1	4/8/2022 5:36:39 PM
Motor Oil Range Organics (MRO)	60	50		mg/Kg	1	4/8/2022 5:36:39 PM
Surr: DNOP	91.2	51.1-141		%Rec	1	4/8/2022 5:36:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/8/2022 11:09:06 PM
Surr: BFB	93.2	37.7-212		%Rec	1	4/8/2022 11:09:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/8/2022 11:09:06 PM
Toluene	ND	0.048		mg/Kg	1	4/8/2022 11:09:06 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/8/2022 11:09:06 PM
Xylenes, Total	ND	0.096		mg/Kg	1	4/8/2022 11:09:06 PM
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	4/8/2022 11:09:06 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	280	59		mg/Kg	20	4/13/2022 3:06:57 AM

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

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



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

April 25, 2022

Chad Dixon

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Nymeyer A 1

OrderNo.: 2204719

Dear Chad Dixon:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/15/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2204719**

Date Reported: **4/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-14 3'

Project: Nymeyer A 1

Collection Date: 4/14/2022 7:30:00 AM

Lab ID: 2204719-001

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: ED
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/20/2022 10:09:55 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/20/2022 10:09:55 AM
Surr: DNOP	63.6	51.1-141		%Rec	1	4/20/2022 10:09:55 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/19/2022 2:56:38 AM
Surr: BFB	98.1	37.7-212		%Rec	1	4/19/2022 2:56:38 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/19/2022 2:56:38 AM
Toluene	ND	0.050		mg/Kg	1	4/19/2022 2:56:38 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/19/2022 2:56:38 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/19/2022 2:56:38 AM
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	4/19/2022 2:56:38 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	63	60		mg/Kg	20	4/19/2022 11:53:29 PM

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

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

Analytical Report

Lab Order **2204719**

Date Reported: **4/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-14 6'

Project: Nymeyer A 1

Collection Date: 4/14/2022 7:35:00 AM

Lab ID: 2204719-002

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: ED
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/20/2022 10:33:28 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/20/2022 10:33:28 AM
Surr: DNOP	70.9	51.1-141		%Rec	1	4/20/2022 10:33:28 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/19/2022 3:43:46 AM
Surr: BFB	97.0	37.7-212		%Rec	1	4/19/2022 3:43:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/19/2022 3:43:46 AM
Toluene	ND	0.047		mg/Kg	1	4/19/2022 3:43:46 AM
Ethylbenzene	ND	0.047		mg/Kg	1	4/19/2022 3:43:46 AM
Xylenes, Total	ND	0.094		mg/Kg	1	4/19/2022 3:43:46 AM
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	4/19/2022 3:43:46 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/20/2022 3:07:54 PM

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

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

Analytical Report

Lab Order **2204719**

Date Reported: **4/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-15 3'

Project: Nymeyer A 1

Collection Date: 4/14/2022 7:40:00 AM

Lab ID: 2204719-003

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: ED
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/20/2022 10:57:10 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/20/2022 10:57:10 AM
Surr: DNOP	82.3	51.1-141		%Rec	1	4/20/2022 10:57:10 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/19/2022 4:07:21 AM
Surr: BFB	97.7	37.7-212		%Rec	1	4/19/2022 4:07:21 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/19/2022 4:07:21 AM
Toluene	ND	0.049		mg/Kg	1	4/19/2022 4:07:21 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/19/2022 4:07:21 AM
Xylenes, Total	ND	0.098		mg/Kg	1	4/19/2022 4:07:21 AM
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	4/19/2022 4:07:21 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/20/2022 3:20:19 PM

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

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

Analytical Report

Lab Order **2204719**

Date Reported: **4/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-15 6'

Project: Nymeyer A 1

Collection Date: 4/14/2022 7:45:00 AM

Lab ID: 2204719-004

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: ED
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/20/2022 11:20:59 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/20/2022 11:20:59 AM
Surr: DNOP	55.6	51.1-141		%Rec	1	4/20/2022 11:20:59 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/19/2022 4:30:54 AM
Surr: BFB	99.1	37.7-212		%Rec	1	4/19/2022 4:30:54 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/19/2022 4:30:54 AM
Toluene	ND	0.049		mg/Kg	1	4/19/2022 4:30:54 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/19/2022 4:30:54 AM
Xylenes, Total	ND	0.099		mg/Kg	1	4/19/2022 4:30:54 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/19/2022 4:30:54 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/20/2022 3:32:44 PM

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

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

Analytical Report

Lab Order **2204719**

Date Reported: **4/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-10 8'

Project: Nymeyer A 1

Collection Date: 4/14/2022 7:50:00 AM

Lab ID: 2204719-005

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: ED
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/20/2022 11:44:54 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/20/2022 11:44:54 AM
Surr: DNOP	51.4	51.1-141		%Rec	1	4/20/2022 11:44:54 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/19/2022 4:54:29 AM
Surr: BFB	98.0	37.7-212		%Rec	1	4/19/2022 4:54:29 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/19/2022 4:54:29 AM
Toluene	ND	0.048		mg/Kg	1	4/19/2022 4:54:29 AM
Ethylbenzene	ND	0.048		mg/Kg	1	4/19/2022 4:54:29 AM
Xylenes, Total	ND	0.095		mg/Kg	1	4/19/2022 4:54:29 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	4/19/2022 4:54:29 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/20/2022 3:45:08 PM

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

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

Analytical Report

Lab Order **2204719**

Date Reported: **4/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-11 2'

Project: Nymeyer A 1

Collection Date: 4/14/2022 7:55:00 AM

Lab ID: 2204719-006

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: ED
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/20/2022 12:56:12 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/20/2022 12:56:12 PM
Surr: DNOP	63.8	51.1-141		%Rec	1	4/20/2022 12:56:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/18/2022 11:06:00 AM
Surr: BFB	103	37.7-212		%Rec	1	4/18/2022 11:06:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.025		mg/Kg	1	4/18/2022 11:06:00 AM
Toluene	ND	0.049		mg/Kg	1	4/18/2022 11:06:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/18/2022 11:06:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	4/18/2022 11:06:00 AM
Surr: 4-Bromofluorobenzene	86.4	70-130		%Rec	1	4/18/2022 11:06:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/20/2022 4:22:22 PM

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

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

Analytical Report

Lab Order **2204719**

Date Reported: **4/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-12 2'

Project: Nymeyer A 1

Collection Date: 4/14/2022 8:00:00 AM

Lab ID: 2204719-007

Matrix: SOIL

Received Date: 4/15/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: ED
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/20/2022 1:19:54 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/20/2022 1:19:54 PM
Surr: DNOP	55.6	51.1-141		%Rec	1	4/20/2022 1:19:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/18/2022 12:05:00 PM
Surr: BFB	98.3	37.7-212		%Rec	1	4/18/2022 12:05:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: BRM
Benzene	ND	0.024		mg/Kg	1	4/18/2022 12:05:00 PM
Toluene	ND	0.048		mg/Kg	1	4/18/2022 12:05:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	4/18/2022 12:05:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	4/18/2022 12:05:00 PM
Surr: 4-Bromofluorobenzene	81.5	70-130		%Rec	1	4/18/2022 12:05:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/20/2022 4:34:47 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204719

25-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: MB-66935	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66935	RunNo: 87374								
Prep Date: 4/19/2022	Analysis Date: 4/19/2022	SeqNo: 3091065	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66935	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66935	RunNo: 87374								
Prep Date: 4/19/2022	Analysis Date: 4/19/2022	SeqNo: 3091066	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.5	90	110			

Sample ID: MB-66944	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 66944	RunNo: 87381								
Prep Date: 4/20/2022	Analysis Date: 4/20/2022	SeqNo: 3091676	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-66944	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 66944	RunNo: 87381								
Prep Date: 4/20/2022	Analysis Date: 4/20/2022	SeqNo: 3091677	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			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204719

25-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: LCS-66884	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 66884		RunNo: 87361							
Prep Date: 4/15/2022	Analysis Date: 4/18/2022		SeqNo: 3090506		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.4	68.9	135			
Surr: DNOP	3.9		5.000		77.2	51.1	141			

Sample ID: MB-66884	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 66884		RunNo: 87361							
Prep Date: 4/15/2022	Analysis Date: 4/18/2022		SeqNo: 3090509		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.2		10.00		81.6	51.1	141			

Sample ID: MB-66891	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 66891		RunNo: 87372							
Prep Date: 4/15/2022	Analysis Date: 4/20/2022		SeqNo: 3090970		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.1		10.00		70.7	51.1	141			

Sample ID: LCS-66891	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 66891		RunNo: 87372							
Prep Date: 4/15/2022	Analysis Date: 4/20/2022		SeqNo: 3090971		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	112	68.9	135			
Surr: DNOP	3.0		5.000		60.5	51.1	141			

Sample ID: 2204719-006AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BES22-11 2'	Batch ID: 66891		RunNo: 87372							
Prep Date: 4/15/2022	Analysis Date: 4/20/2022		SeqNo: 3092518		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	9.8	49.07	0	112	36.1	154			
Surr: DNOP	2.0		4.907		40.3	51.1	141			S

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204719

25-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: 2204719-006AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BES22-11 2'	Batch ID: 66891	RunNo: 87372								
Prep Date: 4/15/2022	Analysis Date: 4/20/2022	SeqNo: 3092539			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	9.6	47.89	0	112	36.1	154	2.30	33.9	
Surr: DNOP	1.8		4.789		36.6	51.1	141	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204719

25-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: mb-66882	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 66882		RunNo: 87320							
Prep Date: 4/15/2022	Analysis Date: 4/18/2022		SeqNo: 3087972		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	37.7	212			

Sample ID: lcs-66882	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 66882		RunNo: 87320							
Prep Date: 4/15/2022	Analysis Date: 4/18/2022		SeqNo: 3087974		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.0	72.3	137			
Surr: BFB	2100		1000		207	37.7	212			

Sample ID: lcs-66887	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 66887		RunNo: 87322							
Prep Date: 4/15/2022	Analysis Date: 4/18/2022		SeqNo: 3088051		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	72.3	137			
Surr: BFB	2400		1000		236	37.7	212			S

Sample ID: mb-66887	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 66887		RunNo: 87322							
Prep Date: 4/15/2022	Analysis Date: 4/18/2022		SeqNo: 3088052		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: 2204719-006ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BES22-11 2'	Batch ID: 66887		RunNo: 87322							
Prep Date: 4/15/2022	Analysis Date: 4/18/2022		SeqNo: 3088054		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.8	23.88	0	112	70	130			
Surr: BFB	2300		955.1		236	37.7	212			S

Sample ID: 2204719-006amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BES22-11 2'	Batch ID: 66887		RunNo: 87322							
Prep Date: 4/15/2022	Analysis Date: 4/18/2022		SeqNo: 3088055		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.8	23.88	0	112	70	130			
Surr: BFB	2300		955.1		236	37.7	212			S

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204719

25-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: 2204719-006amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BES22-11 2'	Batch ID: 66887	RunNo: 87322								
Prep Date: 4/15/2022	Analysis Date: 4/18/2022	SeqNo: 3088055	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	23.92	0	104	70	130	7.16	20	
Surr: BFB	2200		956.9		229	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204719

25-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: mb-66882	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 66882		RunNo: 87320							
Prep Date: 4/15/2022	Analysis Date: 4/18/2022		SeqNo: 3088002		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	70	130			

Sample ID: LCS-66882	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 66882		RunNo: 87320							
Prep Date: 4/15/2022	Analysis Date: 4/18/2022		SeqNo: 3088003		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.4	80	120			
Toluene	0.89	0.050	1.000	0	89.1	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.7	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.9	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: lcs-66887	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 66887		RunNo: 87322							
Prep Date: 4/15/2022	Analysis Date: 4/18/2022		SeqNo: 3088091		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.7	80	120			
Toluene	0.87	0.050	1.000	0	86.8	80	120			
Ethylbenzene	0.87	0.050	1.000	0	87.3	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.3	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		88.4	70	130			

Sample ID: mb-66887	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 66887		RunNo: 87322							
Prep Date: 4/15/2022	Analysis Date: 4/18/2022		SeqNo: 3088092		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.6	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204719

25-Apr-22

Client: Vertex Resources Services, Inc.

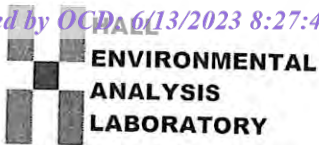
Project: Nymeyer A 1

Sample ID: 2204719-007ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BES22-12 2'	Batch ID: 66887	RunNo: 87322								
Prep Date: 4/15/2022	Analysis Date: 4/18/2022	SeqNo: 3088096	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.024	0.9597	0	89.2	68.8	120			
Toluene	0.89	0.048	0.9597	0	92.4	73.6	124			
Ethylbenzene	0.90	0.048	0.9597	0	93.3	72.7	129			
Xylenes, Total	2.7	0.096	2.879	0	93.5	75.7	126			
Surr: 4-Bromofluorobenzene	0.82		0.9597		85.3	70	130			

Sample ID: 2204719-007amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BES22-12 2'	Batch ID: 66887	RunNo: 87322								
Prep Date: 4/15/2022	Analysis Date: 4/18/2022	SeqNo: 3088097	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.024	0.9524	0	83.9	68.8	120	6.88	20	
Toluene	0.82	0.048	0.9524	0	86.4	73.6	124	7.47	20	
Ethylbenzene	0.83	0.048	0.9524	0	87.4	72.7	129	7.29	20	
Xylenes, Total	2.5	0.095	2.857	0	87.1	75.7	126	7.82	20	
Surr: 4-Bromofluorobenzene	0.79		0.9524		82.5	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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



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

Sample Log-In Check List

Client Name: Vertex Resources Services, Inc.

Work Order Number: 2204719

RcptNo: 1

Received By: Sean Livingston 4/15/2022 8:00:00 AM

Completed By: Tracy Casarrubias 4/15/2022 8:23:24 AM

Reviewed By: JO 4/15/22

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: 4-15-22

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.7	Good	Yes			

Chain-of-Custody Record

Client: BTA

Mailing Address: On File

Phone #:

email or Fax#:

QA/QC Package:

Standard

Accreditation: Az Compliance

NELAC

EDD (Type)

Level 4 (Full Validation)

Az Compliance

Other

Turn-Around Time: 3-DAY

Standard Rush

Project Name:

Nymyer A#1

Project #:

22E-00196

Project Manager:

Charce Dixon

Sampler: CD

On Ice: Yes No

of Coolers: 1

Cooler Temp (including CF): 5.0 to 1.57(°C)

Container Type and #

Preservative Type

HEAL No.

402 ICE 2204719

001

002

003

004

005

006

007

Date

Time

Matrix

Sample Name

4/14 7:36 SOI1 WES22-14 3'

7:35 WES22-14 6'

7:40 WES22-15 3'

7:45 ~~WES22-15~~ WES22-15 6'

7:50 RES22-10 8'

7:55 RES22-11 2'

8:00 RES22-12 2'

Date:

Time:

Relinquished by:

Date:

Time:

Received by:

Via:

Date:

Time:

Remarks:

Analysis Request

BTEX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

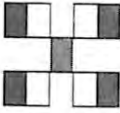
RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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



Hall Environmental Analysis Laboratory
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Website: www.hallenvironmental.com

April 28, 2022

Chance Dixon

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: Nymeyer A 1

OrderNo.: 2204982

Dear Chance Dixon:

Hall Environmental Analysis Laboratory received 13 sample(s) on 4/22/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order **2204982**

Date Reported: **4/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-16 3'

Project: Nymeyer A 1

Collection Date: 4/20/2022 10:00:00 AM

Lab ID: 2204982-001

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/24/2022 6:44:12 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/24/2022 6:44:12 PM
Surr: DNOP	88.1	51.1-141		%Rec	1	4/24/2022 6:44:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	2.9		mg/Kg	1	4/22/2022 1:04:40 PM
Surr: BFB	95.8	37.7-212		%Rec	1	4/22/2022 1:04:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.015		mg/Kg	1	4/22/2022 1:04:40 PM
Toluene	ND	0.029		mg/Kg	1	4/22/2022 1:04:40 PM
Ethylbenzene	ND	0.029		mg/Kg	1	4/22/2022 1:04:40 PM
Xylenes, Total	ND	0.058		mg/Kg	1	4/22/2022 1:04:40 PM
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	4/22/2022 1:04:40 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	4/22/2022 8:30:29 PM

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

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

Analytical Report

Lab Order **2204982**

Date Reported: **4/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-16 6'

Project: Nymeyer A 1

Collection Date: 4/20/2022 10:05:00 AM

Lab ID: 2204982-002

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/24/2022 7:07:50 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/24/2022 7:07:50 PM
Surr: DNOP	86.1	51.1-141		%Rec	1	4/24/2022 7:07:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	4/22/2022 1:28:13 PM
Surr: BFB	95.9	37.7-212		%Rec	1	4/22/2022 1:28:13 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	4/22/2022 1:28:13 PM
Toluene	ND	0.034		mg/Kg	1	4/22/2022 1:28:13 PM
Ethylbenzene	ND	0.034		mg/Kg	1	4/22/2022 1:28:13 PM
Xylenes, Total	ND	0.067		mg/Kg	1	4/22/2022 1:28:13 PM
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	4/22/2022 1:28:13 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	4/22/2022 8:42:53 PM

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

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

Analytical Report

Lab Order **2204982**

Date Reported: **4/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-17 3'

Project: Nymeyer A 1

Collection Date: 4/20/2022 10:10:00 AM

Lab ID: 2204982-003

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/24/2022 7:31:27 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/24/2022 7:31:27 PM
Surr: DNOP	79.0	51.1-141		%Rec	1	4/24/2022 7:31:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	4/22/2022 1:51:39 PM
Surr: BFB	93.4	37.7-212		%Rec	1	4/22/2022 1:51:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	4/22/2022 1:51:39 PM
Toluene	ND	0.037		mg/Kg	1	4/22/2022 1:51:39 PM
Ethylbenzene	ND	0.037		mg/Kg	1	4/22/2022 1:51:39 PM
Xylenes, Total	ND	0.074		mg/Kg	1	4/22/2022 1:51:39 PM
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	4/22/2022 1:51:39 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	4/22/2022 8:55:18 PM

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

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

Analytical Report

Lab Order **2204982**

Date Reported: **4/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-17 6'

Project: Nymeyer A 1

Collection Date: 4/20/2022 10:15:00 AM

Lab ID: 2204982-004

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/24/2022 7:55:11 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/24/2022 7:55:11 PM
Surr: DNOP	83.8	51.1-141		%Rec	1	4/24/2022 7:55:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	4/22/2022 2:15:07 PM
Surr: BFB	92.7	37.7-212		%Rec	1	4/22/2022 2:15:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	4/22/2022 2:15:07 PM
Toluene	ND	0.036		mg/Kg	1	4/22/2022 2:15:07 PM
Ethylbenzene	ND	0.036		mg/Kg	1	4/22/2022 2:15:07 PM
Xylenes, Total	ND	0.072		mg/Kg	1	4/22/2022 2:15:07 PM
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	4/22/2022 2:15:07 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	4/22/2022 9:57:21 PM

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

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

Analytical Report

Lab Order **2204982**

Date Reported: **4/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-18 3'

Project: Nymeyer A 1

Collection Date: 4/20/2022 10:20:00 AM

Lab ID: 2204982-005

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/24/2022 8:42:19 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/24/2022 8:42:19 PM
Surr: DNOP	64.1	51.1-141		%Rec	1	4/24/2022 8:42:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	2.8		mg/Kg	1	4/22/2022 3:25:40 PM
Surr: BFB	95.8	37.7-212		%Rec	1	4/22/2022 3:25:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.014		mg/Kg	1	4/22/2022 3:25:40 PM
Toluene	ND	0.028		mg/Kg	1	4/22/2022 3:25:40 PM
Ethylbenzene	ND	0.028		mg/Kg	1	4/22/2022 3:25:40 PM
Xylenes, Total	ND	0.056		mg/Kg	1	4/22/2022 3:25:40 PM
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	4/22/2022 3:25:40 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	4/22/2022 10:09:46 PM

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

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

Analytical Report

Lab Order **2204982**

Date Reported: **4/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-18 6'

Project: Nymeyer A 1

Collection Date: 4/20/2022 10:25:00 AM

Lab ID: 2204982-006

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/24/2022 9:06:02 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/24/2022 9:06:02 PM
Surr: DNOP	67.5	51.1-141		%Rec	1	4/24/2022 9:06:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	4/22/2022 3:49:11 PM
Surr: BFB	95.7	37.7-212		%Rec	1	4/22/2022 3:49:11 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	4/22/2022 3:49:11 PM
Toluene	ND	0.035		mg/Kg	1	4/22/2022 3:49:11 PM
Ethylbenzene	ND	0.035		mg/Kg	1	4/22/2022 3:49:11 PM
Xylenes, Total	ND	0.069		mg/Kg	1	4/22/2022 3:49:11 PM
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	4/22/2022 3:49:11 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	59		mg/Kg	20	4/22/2022 10:22:11 PM

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

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

Analytical Report

Lab Order **2204982**

Date Reported: **4/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-19 2'

Project: Nymeyer A 1

Collection Date: 4/20/2022 10:30:00 AM

Lab ID: 2204982-007

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/24/2022 9:29:36 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/24/2022 9:29:36 PM
Surr: DNOP	62.1	51.1-141		%Rec	1	4/24/2022 9:29:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	4/22/2022 4:12:41 PM
Surr: BFB	95.9	37.7-212		%Rec	1	4/22/2022 4:12:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	4/22/2022 4:12:41 PM
Toluene	ND	0.038		mg/Kg	1	4/22/2022 4:12:41 PM
Ethylbenzene	ND	0.038		mg/Kg	1	4/22/2022 4:12:41 PM
Xylenes, Total	ND	0.075		mg/Kg	1	4/22/2022 4:12:41 PM
Surr: 4-Bromofluorobenzene	94.9	70-130		%Rec	1	4/22/2022 4:12:41 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	4/22/2022 10:34:35 PM

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

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

Analytical Report

Lab Order **2204982**

Date Reported: **4/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-08 4'

Project: Nymeyer A 1

Collection Date: 4/20/2022 10:35:00 AM

Lab ID: 2204982-008

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/24/2022 9:53:07 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/24/2022 9:53:07 PM
Surr: DNOP	68.3	51.1-141		%Rec	1	4/24/2022 9:53:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	4/22/2022 4:36:09 PM
Surr: BFB	98.2	37.7-212		%Rec	1	4/22/2022 4:36:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	4/22/2022 4:36:09 PM
Toluene	ND	0.038		mg/Kg	1	4/22/2022 4:36:09 PM
Ethylbenzene	ND	0.038		mg/Kg	1	4/22/2022 4:36:09 PM
Xylenes, Total	ND	0.075		mg/Kg	1	4/22/2022 4:36:09 PM
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	4/22/2022 4:36:09 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	4/22/2022 10:46:59 PM

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

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

Analytical Report

Lab Order **2204982**

Date Reported: **4/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-06 4'

Project: Nymeyer A 1

Collection Date: 4/20/2022 3:00:00 PM

Lab ID: 2204982-009

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/24/2022 10:16:47 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/24/2022 10:16:47 PM
Surr: DNOP	69.4	51.1-141		%Rec	1	4/24/2022 10:16:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	4/22/2022 4:59:39 PM
Surr: BFB	94.8	37.7-212		%Rec	1	4/22/2022 4:59:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	4/22/2022 4:59:39 PM
Toluene	ND	0.038		mg/Kg	1	4/22/2022 4:59:39 PM
Ethylbenzene	ND	0.038		mg/Kg	1	4/22/2022 4:59:39 PM
Xylenes, Total	ND	0.075		mg/Kg	1	4/22/2022 4:59:39 PM
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	4/22/2022 4:59:39 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	4/22/2022 10:59:24 PM

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

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

Analytical Report

Lab Order **2204982**

Date Reported: **4/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-07 4'

Project: Nymeyer A 1

Collection Date: 4/20/2022 3:05:00 PM

Lab ID: 2204982-010

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/24/2022 10:40:29 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/24/2022 10:40:29 PM
Surr: DNOP	67.6	51.1-141		%Rec	1	4/24/2022 10:40:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	4/22/2022 5:23:10 PM
Surr: BFB	96.1	37.7-212		%Rec	1	4/22/2022 5:23:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	4/22/2022 5:23:10 PM
Toluene	ND	0.033		mg/Kg	1	4/22/2022 5:23:10 PM
Ethylbenzene	ND	0.033		mg/Kg	1	4/22/2022 5:23:10 PM
Xylenes, Total	ND	0.066		mg/Kg	1	4/22/2022 5:23:10 PM
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	4/22/2022 5:23:10 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	4/22/2022 11:11:49 PM

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

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

Analytical Report

Lab Order **2204982**

Date Reported: **4/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-09 4'

Project: Nymeyer A 1

Collection Date: 4/20/2022 3:10:00 PM

Lab ID: 2204982-011

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/25/2022 10:06:25 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/25/2022 10:06:25 AM
Surr: DNOP	75.4	51.1-141		%Rec	1	4/25/2022 10:06:25 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	4/22/2022 5:46:36 PM
Surr: BFB	99.2	37.7-212		%Rec	1	4/22/2022 5:46:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	4/22/2022 5:46:36 PM
Toluene	ND	0.036		mg/Kg	1	4/22/2022 5:46:36 PM
Ethylbenzene	ND	0.036		mg/Kg	1	4/22/2022 5:46:36 PM
Xylenes, Total	ND	0.072		mg/Kg	1	4/22/2022 5:46:36 PM
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	4/22/2022 5:46:36 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	4/23/2022 12:51:06 AM

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

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

Analytical Report

Lab Order **2204982**

Date Reported: **4/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-20 2'

Project: Nymeyer A 1

Collection Date: 4/20/2022 3:15:00 PM

Lab ID: 2204982-012

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/25/2022 10:30:09 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/25/2022 10:30:09 AM
Surr: DNOP	63.4	51.1-141		%Rec	1	4/25/2022 10:30:09 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	4/22/2022 6:09:58 PM
Surr: BFB	97.0	37.7-212		%Rec	1	4/22/2022 6:09:58 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	4/22/2022 6:09:58 PM
Toluene	ND	0.035		mg/Kg	1	4/22/2022 6:09:58 PM
Ethylbenzene	ND	0.035		mg/Kg	1	4/22/2022 6:09:58 PM
Xylenes, Total	ND	0.071		mg/Kg	1	4/22/2022 6:09:58 PM
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	4/22/2022 6:09:58 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	61		mg/Kg	20	4/23/2022 1:03:32 AM

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

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

Analytical Report

Lab Order **2204982**

Date Reported: **4/28/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-21 2'

Project: Nymeyer A 1

Collection Date: 4/20/2022 3:20:00 PM

Lab ID: 2204982-013

Matrix: MEOH (SOIL)

Received Date: 4/22/2022 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/26/2022 5:43:49 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/26/2022 5:43:49 PM
Surr: DNOP	52.9	51.1-141		%Rec	1	4/26/2022 5:43:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	4/22/2022 6:33:23 PM
Surr: BFB	96.5	37.7-212		%Rec	1	4/22/2022 6:33:23 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	4/22/2022 6:33:23 PM
Toluene	ND	0.036		mg/Kg	1	4/22/2022 6:33:23 PM
Ethylbenzene	ND	0.036		mg/Kg	1	4/22/2022 6:33:23 PM
Xylenes, Total	ND	0.072		mg/Kg	1	4/22/2022 6:33:23 PM
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	4/22/2022 6:33:23 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	4/23/2022 1:15:57 AM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204982

28-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: MB-67022	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 67022	RunNo: 87446								
Prep Date: 4/22/2022	Analysis Date: 4/22/2022	SeqNo: 3094481	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-67022	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 67022	RunNo: 87446								
Prep Date: 4/22/2022	Analysis Date: 4/22/2022	SeqNo: 3094482	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.3	90	110			

Sample ID: MB-67027	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 67027	RunNo: 87446								
Prep Date: 4/22/2022	Analysis Date: 4/22/2022	SeqNo: 3094513	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-67027	SampType: ics	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 67027	RunNo: 87446								
Prep Date: 4/22/2022	Analysis Date: 4/23/2022	SeqNo: 3094514	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			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204982

28-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: MB-67016	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 67016	RunNo: 87468								
Prep Date: 4/22/2022	Analysis Date: 4/24/2022	SeqNo: 3095125	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		95.3	51.1	141			

Sample ID: LCS-67016	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 67016	RunNo: 87468								
Prep Date: 4/22/2022	Analysis Date: 4/24/2022	SeqNo: 3095126	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.9	68.9	135			
Surr: DNOP	4.4		5.000		87.2	51.1	141			

Sample ID: MB-67012	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 67012	RunNo: 87468								
Prep Date: 4/22/2022	Analysis Date: 4/24/2022	SeqNo: 3095129	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.9	51.1	141			

Sample ID: LCS-67012	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 67012	RunNo: 87468								
Prep Date: 4/22/2022	Analysis Date: 4/24/2022	SeqNo: 3095130	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	68.9	135			
Surr: DNOP	4.4		5.000		88.3	51.1	141			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204982

28-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: G87443	RunNo: 87443								
Prep Date:	Analysis Date: 4/22/2022	SeqNo: 3094733			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.3	37.7	212			

Sample ID: 2.5ug gro lcs	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: G87443	RunNo: 87443								
Prep Date:	Analysis Date: 4/22/2022	SeqNo: 3094734			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.5	72.3	137			
Surr: BFB	2000		1000		202	37.7	212			

Sample ID: mb-66998	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 66998	RunNo: 87443								
Prep Date: 4/21/2022	Analysis Date: 4/23/2022	SeqNo: 3094780			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		100	37.7	212			

Sample ID: lcs-66998	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 66998	RunNo: 87443								
Prep Date: 4/21/2022	Analysis Date: 4/23/2022	SeqNo: 3094781			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2100		1000		206	37.7	212			

Qualifiers:

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2204982

28-Apr-22

Client: Vertex Resources Services, Inc.

Project: Nymeyer A 1

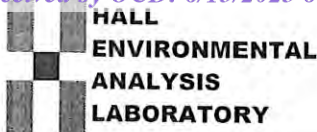
Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: B87443	RunNo: 87443								
Prep Date:	Analysis Date: 4/22/2022	SeqNo: 3094801	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	70	130			

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: B87443	RunNo: 87443								
Prep Date:	Analysis Date: 4/22/2022	SeqNo: 3094802	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.4	80	120			
Toluene	0.89	0.050	1.000	0	89.1	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.7	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: mb-66998	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 66998	RunNo: 87443								
Prep Date: 4/21/2022	Analysis Date: 4/23/2022	SeqNo: 3094846	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		99.3	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
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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 Number: 2204982 RcptNo: 1

Received By: Cheyenne Cason 4/22/2022 8:00:00 AM
Completed By: Desiree Dominguez 4/22/2022 8:22:23 AM
Reviewed By: [Signature] 4/22/22

Chain of Custody

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

Log In

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

of preserved bottles checked for pH: (<2 or >12 unless noted) Adjusted?
Checked by: JN 4/22/22

Special Handling (if applicable)

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

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

16. Additional remarks:

17. Cooler Information

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

Chain-of-Custody Record

Client: VERCEL

Mailing Address: On File

Phone #: _____

email or Fax#: _____

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

Accreditation: Az Compliance NELAC Other

EDD (Type) _____

Turn-Around Time: 1 - Day

Standard Rush

Project Name: Nymeria A #1

Project #: 22E-00196

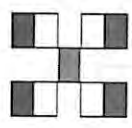
Project Manager: Chance Dixon

Sampler: CD

On Ice: Yes No

of Coolers: 2 2,1-0-2,1

Cooler Temp (including CF): 0.4-0-0.4 (°C)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	Cooler Temp (°C)
4/20	10:00	Soil	WES22-16 3'	402	ICE	2204982	-001
	10:05		WES22-16 6'				-002
	10:10		WES22-17 3'				-003
	10:15		WES22-17 6'				-004
	10:20		WES22-18 3'				-005
	10:25		WES22-18 6'				-006
	10:30		WES22-19 2'				-007
	10:35		BES22-08 4'				-008
	3:00		BES22-06 4'				-009
	3:05		BES22-07 4'				-010
	3:10		BES22-09 4'				-011
	3:15		WES22-20 2'				-012

Remarks:

Received by: [Signature] Date: 4/21/22 9:30

Received by: [Signature] Date: 4/21/22 9:30

Relinquished by: [Signature] Date: 4/21/22 1:00

Relinquished by: [Signature] Date: 4/21/22 1:00

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 226792

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 226792
	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 #NAPP2201957333 NYMEYER A #1 TANK BATTERY, thank you. This closure is approved.	11/6/2023