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Incident ID nAPP2129171458
District RP
Facility ID
Application ID

Closure

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

Closure Report Attachment Checklist: Each of the following it	tems must be included in the closure report.
X A scaled site and sampling diagram as described in 19.15.29.11 NMAC	
Note: appropriate OCD District office must be notified 2 days prior to liner inspection)	
X Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
X Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in
email: dale.woodall@dvn.com	Telephone: 575-748-1838
eman. duic.woodan@dvii.com	reiephone.
OCD Only	
Received by: Robert Hamlet	Date: 3/7/2023
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Robert Hamlet	Date: <u>3/7/2023</u>
Printed Name: Robert Hamlet	Title: Environmental Specialist - Advanced

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Incident ID	nAPP2129171458
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Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	18(ft bgs)	
Did this release impact groundwater or surface water?	Yes X No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes X No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes X No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes X No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes X No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No	
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes X No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes X No	
Are the lateral extents of the release within a 100-year floodplain?	Yes X No	
Did the release impact areas not on an exploration, development, production, or storage site?		
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 		

- X Data table of soil contaminant concentration data
- X Depth to water determination
- X Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- X Boring or excavation logs
- X Photographs including date and GIS information
- X Topographic/Aerial maps
- X Laboratory data including chain of custody

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

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Incident ID	nAPP2129171458	
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Application ID		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Dale Woodall	Title: Env. Professional	
Signature: Dals Woodall	Date:12-2-2022	
email:dale.woodall@dvn.com	Telephone: _575-748-1838	
OCD Only		
Received by: Jocelyn Harimon	Date:12/02/2022	

e of New Mexico

Incident ID	nAPP2129171458
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	e included in the plan.	
 ∑ Detailed description of proposed remediation technique ∑ Scaled sitemap with GPS coordinates showing delineation point ∑ Estimated volume of material to be remediated ∑ Closure criteria is to Table 1 specifications subject to 19.15.29.1 ∑ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC	
Deferral Requests Only: Each of the following items must be con-	firmed as part of any request for deferral of remediation.	
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility	
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health, the environment, or groundwater.		
I hereby certify that the information given above is true and complet rules and regulations all operators are required to report and/or file of which may endanger public health or the environment. The accepta liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD are sponsibility for compliance with any other federal, state, or local limits of the environment.	ertain release notifications and perform corrective actions for releases nce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of	
Printed Name: Dale Woodall	Title: Env. Specialist	
Signature: Dale Woodall	Date: 12/2/2022	
email: dale.woodall@dvn.com	Telephone: _ 575-748-1838	
OCD Only		
Received by: Jocelyn Harimon	Date:12/06/2022	
Approved	Approval	
Signature:	<u>Date:</u>	

Received by OCD: 12/2/2022 2:02:23 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

Incident ID nAPP2129171458

District RP
Facility ID
Application ID

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.	
X A scaled site and sampling diagram as described in 19.15.29.11 NMAC	
X Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
X Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
X Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rerhuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the O	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Printed Name: Dale Woodall	
Signature: Dale Woodall	Date:12/2/2022
email: dale.woodall@dvn.com	Telephone: 575-748-1838
OCD Only	
Received by:Jocelyn Harimon	Date:12/02/2022
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:



November 17, 2022 Vertex Project #: 22E-01417

Spill Closure Report: Papas Fritas 27 CTB 1

Unit O, Section 27, Township 23 South, Range 29 East

API: N/A County: Eddy

Incident Reports: nAPP2129171458, nAPP2127146416 and nAPP221094425

Prepared For: Devon Energy Production Company

6488 Seven Rivers Highway Artesia, New Mexico 88210

New Mexico Oil Conservation Division - District 2 - Artesia

811 S. 1st Street

Artesia, New Mexico 88210

Devon Energy Production Company (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a Spill Assessment and Closure for multiple produced water releases at Papas Fritas 27 CTB 1 (hereafter referred to as "Papas Fritas"). Devon submitted an initial C-141 Release Notification (Attachment 1) to the New Mexico Oil Conservation Division (NMOCD) District 2 on September 28, 2021. Incident ID numbers nAPP2129171458 and nAPP2127146416 were assigned to the incidents.

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

Incident Descriptions

nAPP221094425

The release for nAPP2129171458 occurred near the storage tanks. The cause of the release is unknown. The incident resulted in the release of 13 barrels of produced water into the containment. No fluids were recovered from the release. No oil or produced water was released into waterways.

nAPP2127146416 and nAPP2129171458

The release for nAPP2127146416 and nAPP2129171458 occurred on the north/northwest side of the containment at Papas Fritas when the water-transfer pump developed a leak. The fluid traveled north and northwest of the oil tanks and released into the pasture north of the pad. The horizontal extent of the release was approximately 336 feet long and 301 feet wide. After the release, a vacuum truck was brought on-site to recover the fluids. Approximately

Devon Energy Production Company Papas Fritas 27 CTB 1 **2022 Spill Assessment and Closure**November 2022

120 barrels of fluids were recovered. No oil or produced water was released into waterways.

Site Characterization

The releases at Devon's Papas Fritas site occurred on federal land at 32.271611° N, 103.969944° W, approximately 6.4 miles southwest of Malaga, New Mexico. The legal description for the site is Unit O, Section 27, Township 23 South, Range 29 East in Eddy County, New Mexico. This location is within the Permian Basin in southeast New Mexico and has historically been used for oil and gas exploration and production, and rangeland.

Papas Fritas is typical of oil and gas exploration and production sites on the western portion of the Permian Basin and is currently being used for oil and gas production and storage. The following sections specifically describe the release areas on the north side of the pad (Attachment 2).

The nearest active well to Papas Fritas is a New Mexico Office of the State Engineer (NMOSE) monitoring well located approximately 1.06 miles northwest of the site (United States Department of the Interior, United States Geological Survey, 2021). Data from 2000 shows the NMOSE well had a depth to groundwater of 18 feet below ground surface (bgs). Information pertaining to the depth to groundwater determination is included in Attachment 4.

The surrounding landscape is associated with plains, interdunes, and dunes. With elevations ranging between 2,700 and 5,500 feet. The climate is semiarid with average annual precipitation ranging between 5 and 15 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be black 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 Papas Fritas is comprised primarily of Qep – Eolian and Piedmont deposits from the Holocene to lower Pleistocene ages (New Mexico Bureau of Geology and Mineral Resources, 2022). The United States Department of Agriculture Web Soil Survey characterizes the soil at the site as Pajarito Loamy Fine Sand. The soil is well-drained with a very low runoff. The karst geology potential for Papas Fritas is medium (United States Department of the Interior, Bureau of Land Management, 2018).

There is no surface water located at Papas Fritas. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located 0.67 miles west of the site. At Papas Fritas, there are no continuously flowing water courses or significant watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Closure Criteria Determination

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

Based on the data included in the closure criteria determination worksheet, the releases at Papas Fritas are subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC. There are no active water wells within a half-mile of the site to accurately determine the depth to groundwater; therefore, the closure criteria for the incident will assume NMOCD's strictest criteria and are determined to be associated with the following constituent concentration limits.

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

TDS - Total dissolved solids

Liner Inspection

nAPP221094425

On May 11, 2022, Vertex provided 48-hour notification of the liner inspection to NMOCD District 2 as required by Subparagraph (a) of Paragraph (5) of Subsection A 19.15.29.11 NMAC (Attachment 5). On May 14, 2022, Vertex was on-site to conduct an inspection of the lined containment and verify that the liner was intact and had the ability to contain the release. The Daily Field Report and associated photographs of the liner inspection are included in Attachment 6. The inspection confirmed the liner remained intact and had the ability to contain the release.

Remedial Actions

nAPP2127146416 and nAPP2129171458

On October 6, 2021, Safety & Environmental Solutions, Inc. (SESI) conducted initial site assessment activities through field screening procedures. Characterization sample points for SESI's delineation are included on Figure 1 (Attachment 2). Characterization sample analytical data from SESI's delineation are summarized in Attachment 3. Vertex was not affiliated with the initial site characterization or work plan. Remediation fieldwork was completed by Carmona Resources and confirmatory sampling was completed by Vertex. SESI's full remediation work plan is included in Attachment 9.

Excavation of impacted soils was conducted between September 23, 2022, and October 27, 2022. A Vertex representative was on-site from October 5 to 27, 2022, to conduct field screen procedures to determine the final horizontal and vertical extents of the excavation area. Initial and final Daily Field Reports and associated photographs are included in Attachment 6.

Between September 26 and October 25, 2022, Vertex provided three 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. Between vertex.ca

TPH - Total petroleum hydrocarbons = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO)

BTEX - Benzene, toluene, ethylbenzene, and xylenes

Devon Energy Production Company Papas Fritas 27 CTB 1 2022 Spill Assessment and Closure November 2022

October 3 and 27, 2022, Vertex collected a total of 148 five-point composite confirmatory samples from the base and side walls of the excavation, at depths ranging between the ground surface and 4 feet bgs. Confirmation sample points are included on Figure 3 (Attachment 2). 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 October 27, 2022, excavation was completed. The final total square footage of the excavation was 22,382 square feet.

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

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

Closure Request

Vertex recommends no additional action to address the remediation area at Papas Fritas. Laboratory analyses of confirmation samples collected at Papas Fritas 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 this release site.

Vertex requests that these incidents (nAPP2129171458, nAPP2127146416, and nAPP221094425) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Devon certifies that all information in this report and the attachments 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 remediation area at Papas Fritas.

Devon Energy Production Company Papas Fritas 27 CTB 1

2022 Spill Assessment and Closure November 2022

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

Chance Dixon	November 17, 2022
Chance Dixon, B.Sc.	Date
SR. ENVIRONMENTAL TECHNICIAN, REPORTING	
	November 17, 2022
Kent Stallings, P.G.	Date
PROJECT MANAGER, REPORT REVIEW	

Attachments

Attachment 8.

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

Extension Denial After 90 Days from NMOCD Attachment 9. Safety & Environmental Solution Inc.'s Remediation Workplan

2022 Spill Assessment and Closure November 2022

References

- Google Inc. (2022). Google Earth Pro (Version 7.3.3) [Software]. Retrieved from https://earth.google.com
- New Mexico Bureau of Geology and Mineral Resources. (2022). *Interactive Geologic Map*. Retrieved from http://geoinfo.nmt.edu
- New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System. (2022). *Well Log/Meter Information Report*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/meterReport.html
- New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.
- New Mexico Water Rights Reporting System. (2019a). Water Column/Average Depth to Water Report. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html
- New Mexico Water Rights Reporting System. (2019b). *Point of Diversion Location Report*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html
- United States Department of Agriculture, Soil Conservation Service in Cooperation with New Mexico Agricultural Experiment Station. (1971). *Soil Survey, New Mexico*. Retrieved from http://www.wipp.energy.gov/library/Information_Repository_A/Supplemental_Information/Chugg%20et%20al%201971%20w-map.pdf
- United States Department of Homeland Security, FEMA Flood Map Service Center. (2022). Flood Map Number 35015C1875D. Retrieved from https://msc.fema.gov/portal/search?AddressQuery=malaga%20new%20mexic o#searchresultsanchor
- United States Department of the Interior, Bureau of Land Management. (2018). *New Mexico Cave/Karsts*. Retrieved from https://www.blm.gov/programs/recreation/recreation-programs/caves/new-mexico
- United State Fish and Wildlife Service. (2022). *National Wetland Inventory Surface Waters and Wetland*. Retrieved from https://www.fws.gov/wetlands/data/mapper.html

Devon Energy Production Company Papas Fritas 27 CTB 1 2022 Spill Assessment and Closure November 2022

Limitations

This report has been prepared for the sole benefit of Devon Energy Production Company (Devon). This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and Devon. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

ATTACHMENT 1

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

State of New Mexico Energy Minerals and Natural Resources 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	nAPP2210924425
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

			-		•	
Responsible Party Devon Energy Production Company				y OGRID	D 6137	
Contact Name Wesley Mathews				Contac	ct Telephone	
Contact emai	il Wesley	.Mathews@dvr	n.com	Inciden	nt # (assigned by OCD)	
Contact mail	ing address	6488 Seven R	ivers Hwy Artes	sia, NM 8821	10	
			Location	of Release	Source	
Latitude <u>32</u>	2.271611		(NAD 83 in dec	Longitud imal degrees to 5 d	de <u>-103.969944</u> decimal places)	
Site Name	Papas Frita	as 27 CTB 1		Site Typ	rpe Oil	
Date Release	Discovered	04/18/2022		API# (if	if applicable)	
Unit Letter	Section	Township	Range	C	County	
О	27	23S	29E	Е	Eddy	
Surface Owner		X Federal Tr	Nature and	l Volume o	of Release ecific justification for the volumes provided below)	
Crude Oil		Volume Release		outcutations of spec	Volume Recovered (bbls)	
X Produced	Water	Volume Release	d (bbls) 13 BBLS	S	Volume Recovered (bbls) 0 BBLS	
Is the concentration of dissolved chloride produced water >10,000 mg/l?				loride in the	☐ Yes ☐ No	
Condensate Volume Released (bbls)			d (bbls)		Volume Recovered (bbls)	
Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)						
Cause of Rele	ease: Pinho	le developed on	a water line.			

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of New Mexico	Incident ID	- A DD2210024425	

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Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible	party consider this a major release?
If YES, was immediate no	otice given to the OCD? By whom? To whom?	When and by what means (phone, email, etc)?
	Initial Resp	onse
The responsible	party must undertake the following actions immediately unle	ss they could create a safety hazard that would result in injury
\overline{X} The source of the rele	ease has been stopped.	
X The impacted area ha	as been secured to protect human health and the e	nvironment.
X Released materials ha	ave been contained via the use of berms or dikes,	absorbent pads, or other containment devices.
X All free liquids and re	ecoverable materials have been removed and ma	naged appropriately.
	·	
has begun, please attach	a narrative of actions to date. If remedial effor	liation immediately after discovery of a release. If remediation its have been successfully completed or if the release occurred attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	required to report and/or file certain release notification ment. The acceptance of a C-141 report by the OCD cate and remediate contamination that pose a threat to	of my knowledge and understand that pursuant to OCD rules and one and perform corrective actions for releases which may endanger one not relieve the operator of liability should their operations have groundwater, surface water, human health or the environment. In insibility for compliance with any other federal, state, or local laws
Printed Name:	T	itle:
Signature:		ate:
email:	Te	lephone:
OCD Only		
Received by:	Da	te:

exico Incident ID nAPP2210924425

Incident ID	nAPP2210924425
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Site Assessment/Characterization

 $This information \ must \ be \ provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)	
Did this release impact groundwater or surface water?	Yes X No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes X No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes X No	
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No	
Are the lateral extents of the release overlying a subsurface mine?	Yes X No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No	
Are the lateral extents of the release within a 100-year floodplain?	Yes X No	
Did the release impact areas not on an exploration, development, production, or storage site?		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil		

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.

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

Received by OCD: 12/2/2022 2:02:23 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 1/0f 3
Incident ID	nAPP2210924425
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name: Dale Woodall	Title: Env. Professional	
Signature: Dale Woodall	Date: 12/2/2022	
email:dale.woodall@dvn.com	Telephone:575-748-1838	
OCD Only		
Received by:	Date:	

	Page 18 of 3	<i>79</i>
Incident ID	nAPP2210924425	
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	included in the plan.
 X Detailed description of proposed remediation technique X Scaled sitemap with GPS coordinates showing delineation points X Estimated volume of material to be remediated X Closure criteria is to Table 1 specifications subject to 19.15.29.1 X Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC
<u>Deferral Requests Only</u> : Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
I hereby certify that the information given above is true and complerules and regulations all operators are required to report and/or file complete which may endanger public health or the environment. The accepta liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local limits of the compliance with any other federal.	ertain release notifications and perform corrective actions for releases nce of a C-141 report by the OCD does not relieve the operator of a and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Dale Woodall	Title: Env. Professional
Signature: Dala Woodall	Date: 12/2/2022
email: dale.woodall@dvn.com	Telephone: <u>575-748-1838</u>
OCD Only	
Received by:	Date:
Approved	Approval
Signature:	Date:

Received by OCD: 12/2/2022 2:02:23 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

X A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Incident ID nAPP2210924425
District RP
Facility ID
Application ID

Closure

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

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

X Photographs of the remediated site prior to backfill or photomust be notified 2 days prior to liner inspection)	os of the liner integrity if applicable (Note: appropriate OCD District office
X Laboratory analyses of final sampling (Note: appropriate Of	OC District office must be notified 2 days prior to final sampling)
X Description of remediation activities	
and regulations all operators are required to report and/or file cert may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regulations.	elete to the best of my knowledge and understand that pursuant to OCD rules ain release notifications and perform corrective actions for releases which of a C-141 report by the OCD does not relieve the operator of liability remediate contamination that pose a threat to groundwater, surface water, of a C-141 report does not relieve the operator of responsibility for alations. The responsible party acknowledges they must substantially conditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Printed Name: Dale Woodall	Title: Env. Professional
	Date:12/2/2022
email:dale.woodall@dvn.com	Telephone: <u>575-748-1838</u>
OCD Only	
Received by:	Date:
	ty of liability should their operations have failed to adequately investigate and e water, human health, or the environment nor does not relieve the responsible d/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

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

Responsible Party Devon Energy Production Company

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	nAPP2127146416
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID 6137

Contact Name Wesley Mathews				Contact 7	Contact Telephone	
Contact email Wesley.Mathews@dvn.com				Incident	Incident # (assigned by OCD)	
Contact mail	ing address	6488 Seven Ri	vers Hwy Arte	sia, NM 88210		
Location of Release Source Latitude 32.271611 Longitude -103.969944 (NAD 83 in decimal degrees to 5 decimal places)						
Site Name	Papas Frita	s 27 CTB 1		Site Type	Oil	
Date Release	Discovered	9/28/2021		API# (if ap	oplicable)	
Unit Letter O Surface Owner	Section 27	Township 23S X Federal Tr	Range 29E	Cou Ed		
Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil Volume Released (bbls) Volume Recovered (bbls)						
Volume Released (bbls)150.32 BBLS Is the concentration of dissolved chlorid produced water >10,000 mg/1?			Volume Reco	overed (bbls)120 BBLS		
Condensa	ite	Volume Release			Volume Recovered (bbls)	
Natural G	as	Volume Release	d (Mcf)		Volume Reco	overed (Mcf)
Other (describe) Volume/Weight Released (provide units		e units)	Volume/Weight Recovered (provide units)			
Cause of Rele	ease: Transf	er pump develo	oped a leak.			

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 		 	/	"

Incident ID	nAPP2127146416
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release? The release was more than 25 barrels.
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
X The impacted area hatX Released materials hatX All free liquids and re	ease has been stopped. It is been secured to protect human health and the environment. It is been contained via the use of berms or dikes, absorbent pads, or other containment devices. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human health and the environment. It is been secured to protect human he
has begun, please attach	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the info regulations all operators are public health or the environ failed to adequately investig	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atteand remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

State of New Mexico Page 22 of 379

Incident ID	nAPP2127146416
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

 $This information \ must \ be \ provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes X No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes X No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes X No		
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No		
Are the lateral extents of the release overlying a subsurface mine?	Yes X No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes X No		
Are the lateral extents of the release within a 100-year floodplain?	Yes X No		
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X 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.			
 X Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well X Field data X Data table of soil contaminant concentration data X Depth to water determination X Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs X Photographs including date and GIS information X Topographic/Aerial maps Laboratory data including chain of custody 	S.		

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

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	Page 23 of 37	79
Incident ID	nAPP2127146416	
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name: Dale Woodall	Title: Env. Professional		
Signature: Dals Woodall	Date: 12/2/2022		
email: dale.woodall@dvn.com	Telephone:575-748-1838		
OCD Only			
Received by:	Date:		

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Incident ID	nAPP2127146416
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.				
 ✓ Detailed description of proposed remediation technique ✓ Scaled sitemap with GPS coordinates showing delineation points ✓ Estimated volume of material to be remediated ✓ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC ✓ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 				
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.				
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Dale Woodall	Title: Env. Professional			
Signature: Dale Woodall	Date: 12/2/2022			
email: dale.woodall@dnv.com	Telephone: <u>575-748-1838</u>			
OCD Only				
Received by:	Date:			
☐ Approved ☐ Approved with Attached Conditions of	Approval			
Signature:	Date:			

X A scaled site and sampling diagram as described in 19.15.29.11 NMAC

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	1 450 20 0 0
Incident ID	nAPP2127146416
District RP	
Facility ID	
Application ID	

Closure

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

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

X Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office	
X Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)	
\overline{X} Description of remediation activities		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and remuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the concordance with 19.15.29.13 NMAC including notification to the OPrinted Name: Dale Woodall Signature: Dale Woodall Signature: Dale Woodall	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.	
email: dale.woodall@dvn.com	Telephone:	
OCD Only		
Received by:	Date:	
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:	
_		

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

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Incident ID		

District RP Facility ID

		Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the response	nsible party consider this a major releas	e?
☐ Yes ☐ No			
TOYEO : I' .			"
II YES, was immediate no	otice given to the OCD? By whom? To w	nom? When and by what means (phone	e, email, etc)?
	Initial R	esponse	
The responsible	party must undertake the following actions immediate	ly unless they could create a safety hazard that wo	ould result in injury
The impacted area ha	ease has been stopped. as been secured to protect human health and ave been contained via the use of berms or		nent devices.
All free liquids and re	ecoverable materials have been removed as	d managed appropriately.	
If all the actions described	d above have <u>not</u> been undertaken, explain	why:	
has begun, please attach	IAC the responsible party may commence a narrative of actions to date. If remedial at area (see 19.15.29.11(A)(5)(a) NMAC),	efforts have been successfully complet	ted or if the release occurred
regulations all operators are public health or the environr failed to adequately investig	rmation given above is true and complete to the required to report and/or file certain release not ment. The acceptance of a C-141 report by the ate and remediate contamination that pose a thr f a C-141 report does not relieve the operator o	ifications and perform corrective actions for DCD does not relieve the operator of liability eat to groundwater, surface water, human here	releases which may endanger y should their operations have alth or the environment. In
Printed Name:		Title:	
Signature: Kendra	DeHoyos	Date:	
email:		Telephone:	
OCD Only			

Date: ____11/9/2021

Received by: Ramona Marcus

	Page 28 of 3	79
Incident ID	nAPP2129171458	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no taler than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	18(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes X No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes X No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes X No
Are the lateral extents of the release within 300 feet of a wetland?	Yes X No
Are the lateral extents of the release overlying a subsurface mine?	Yes X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes X No
Are the lateral extents of the release within a 100-year floodplain?	Yes X No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil

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

- X Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- X Field data
- X Data table of soil contaminant concentration data
- X Depth to water determination
- X Boring or excavation logs
- X Photographs including date and GIS information
- Topographic/Aerial maps
- X Laboratory data including chain of custody

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

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	Page 29 of 379
Incident ID	nAPP2129171458
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Dale Woodall	Title: Env. Professional
Signature: Dale Woodall	Date:12-2-2022
email:dale.woodall@dvn.com	Telephone: _575-748-1838
OCD Only	
Received by:	Date:

	Page 30 of 3	79
Incident ID	nAPP2129171458	
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	included in the plan.
 ∑ Detailed description of proposed remediation technique ∑ Scaled sitemap with GPS coordinates showing delineation point ∑ Estimated volume of material to be remediated ∑ Closure criteria is to Table 1 specifications subject to 19.15.29.1 ∑ Proposed schedule for remediation (note if remediation plan tim 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
I hereby certify that the information given above is true and complet rules and regulations all operators are required to report and/or file c which may endanger public health or the environment. The acceptar liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local laterals.	ertain release notifications and perform corrective actions for releases ace of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Dale Woodall	Title: Env. Specialist
Signature: Dala Woodall	Date: 12/2/2022
email: dale.woodall@dvn.com	Telephone:575-748-1838
OCD Only	
Received by:	Date:
Approved	Approval Denied Deferral Approved
Signature:	Date:

Received by OCD: 12/2/2022 2:02:23 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

Incident ID nAPP2129171458
District RP
Facility ID
Application ID

Closure

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

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

	-	
X 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 just be notified 2 days prior to liner inspection)		
X Laboratory analyses of final sampling (Note: appropriate OD	OC District office must be notified 2 days prior to final sampling)	
X Description of remediation activities		
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regularestore, reclaim, and re-vegetate the impacted surface area to the caccordance with 19.15.29.13 NMAC including notification to the operations.	lations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.	
email: _dale.woodall@dvn.com	Telephone: _575-748-1838	
OCD Only		
Received by:	Date:	
	y of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible d/or regulations.	
Closure Approved by:	Date:	
Printed Name:	Title:	

Measurements (Of Standing Fluid
Length(Ft)	120
Width(Ft)	60
Depth(in.)	
Total Capacity without tank displacements (bbls)	0.25
No. of 500 bbl Tanks In Standing Fluid	8
No. of Other Tanks In Standing Fluid	
OD Of Other Tanks In Standing Fluid(feet)	16
Total Volume of standing fluid accounting for tank displacement.	22.39

Con	taminated S	Soil measurement		
Area (square feet)		Depth(inches)		
8228.513		0.016		
Cubic Feet of Soil Impacted		10.971		
Barrels of Soil Impacted		1.96		
Soil Type		Clay/Sand		
Barrels of Oil Assuming 100% Saturation		0.29		
Saturation	Fluid present with shovel/backhoe			
Estimated Barrels of Oil Released		0.29		
Free Standing Fluid Only				
Area (square feet)		Depth(inches)		
<u>8228.513</u>		0.016		
Standing fluid		1.956		
Total fluids spilled		2.249		

NAPP2129171458

Con	taminated Soil	measurement
Area (square feet)		Depth(inches)
29429		0.250
Cubic Feet of Soil Impacted		613.104
Barrels of Soil Impacted		109.29
Soil Type		Clay/Sand
Barrels of Oil Assuming 100% Saturation		16.39
Saturation	Fluid preser	t with shovel/backhoe
Estimated Barrels of Oil Released		16.39
	Free Standing	Fluid Only
Area (square feet)		Depth(inches)
29429		0.250
Standing fluid		109.288
Total fluids spilled		125.681
- 10		CONTRACTOR STATE

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 56657

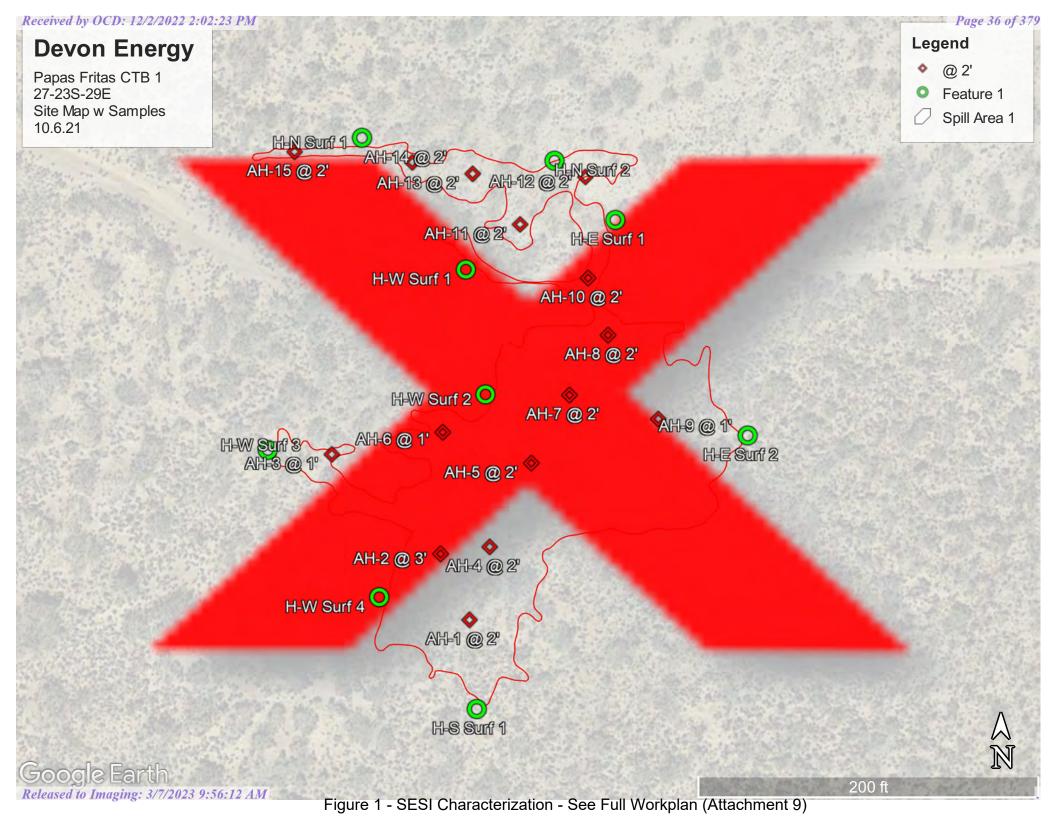
CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	56657
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	11/9/2021

ATTACHMENT 2



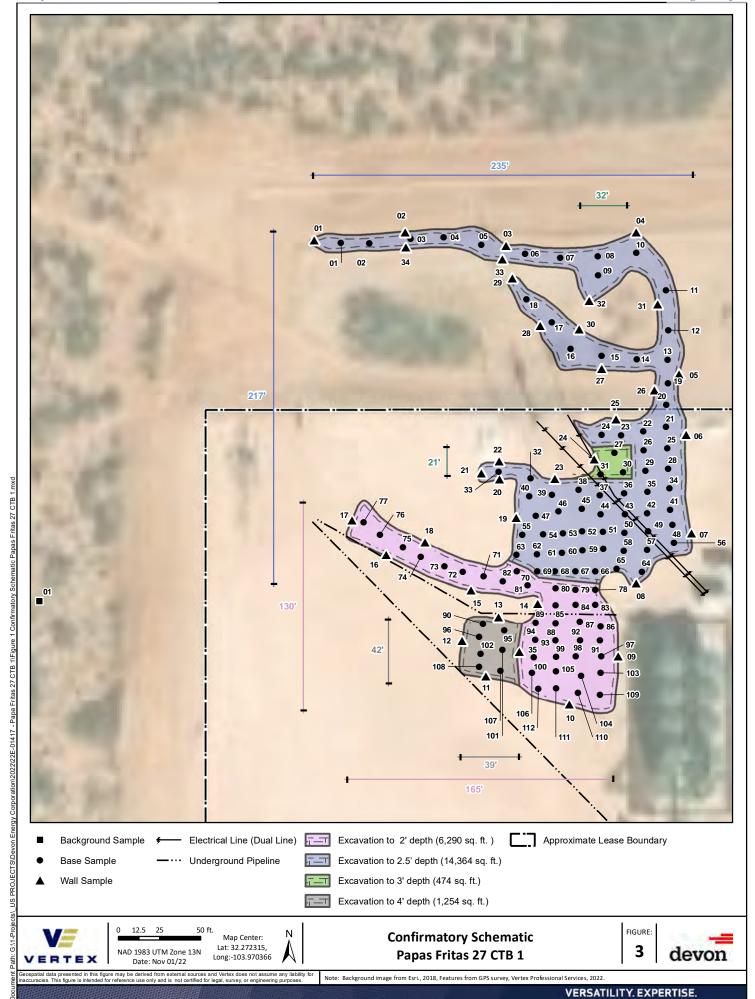


20 ft. 5 10 NAD 1983 UTM Zone 13N Date: Nov 09/22

Map Center: Lat: 32.271803,

Liner Inspection Papas Fritas 27 CTB 1 FIGURE: ² devon

Note: Background imagery from Maxar, 2022. Features from imagery. Vertex Professional Services Ltd., 2022



ATTACHMENT 3

Company Contacts

Representative	Company	Telephone	E-mail
Wes Mathews	Devon Energy	575-578-6195	Wesley.Mathews@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was contracted by Devon Energy to assess a release at the Papas Fritas 27 CTB 1 location. This site is situated in UL O, Section 27, Township 23S and Range 29E, in Lea County New Mexico. We are addressing the release in this plan which will be remediated upon plan approval.

According to the NOR for incident NAPP2113158013, corrosion on a fitting resulted in the release of 150 bbls of produced water. A vacuum truck was dispatched and recovered 125 bbls free-standing fluid.

This workplan addresses two incident numbers, NAPP2113158013 & NAPP2127146416. This single event was documented or reported twice, one is a duplicate.

Surface and Ground Water

According to the NMOCD Oil and Gas Map, there is no surface water within 3,000 feet of this location and spill areas. Depth to groundwater determination was not successfully established based on the guidelines required by NMOCD; therefore, Devon will remediate these spills according to the most stringent criteria set forth by NMOCD in NMAC 19.15.29.

Characterization

The release has been fully delineated both vertically and horizontally, which includes establishing horizontal and vertical extent of delineation to the most stringent standard of 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene.

Release Area (NAPP2113158013), Investigation

SESI personnel tracked and mapped the release and sampled the area to achieve both vertical and horizontal delineation. Samples were taken at the surface and 1-foot intervals until field testing indicated the samples to meet target levels. The horizontal extent samples are denoted on the map with an H beside the sample number. The samples were properly preserved and packaged and sent to Hall Environmental Labs for testing. The results of the analytical are captured in the summary table below.

Table 2 – Field Test Samples

Sample ID	Chloride	TPH	Sample ID	Chloride	TPH
AH-1 @ Surf	NT	NT	AH-9 @ Surf	NT	NT
AH-1 @ 1'	2220	NT	AH-9 @ 1'	<108	07
AH-1 @ 2'	160	01			
			AH-10 @ Surf	NT	NT

AH-2 @ Surf	NT	NT		AH-10 @ 1'	1532	NT
AH-2 @ 1'	2604	NT		AH-10 @ 2'	220	12
AH-2 @ 2'	1648	NT		AH-11 @ Surf	NT	NT
AH-2 @ 3'	160	05		AH-11 @ 1'	1648	NT
				AH-11 @ 2'	108	04
AH-3 @ Surf	NT	NT				
AH-3 @ 1'	160	03		AH-12 @ Surf	NT	NT
				AH-12 @ 1'	1532	NT
				AH-12 @ 2'	188	10
AH-4 @ Surf	NT	NT				
AH-4 @ 1'	1648	NT		AH-13 @ Surf	NT	NT
AH-4 @ 2'	188	05		AH-13 @ 1'	1772	NT
				AH-13 @ 2'	220	09
AH-5 @ Surf	NT	NT				
AH-5 @ 1'	1772	NT		AH-14 @ Surf	NT	NT
AH-5 @ 2'	188	02		AH-14 @ 1'	1648	NT
				AH-14 @ 2'	<108	10
AH-6 @ Surf	NT	NT				
AH-6 @ 1'	<108	01		AH-15 @ Surf	NT	NT
				AH-15 @ 1'	2604	NT
AH-7 @ Surf	NT	NT		AH-15 @ 2'	<108	03
AH-7 @ 1'	1772	NT				
AH-7 @ 2'	188	07				
AH-8 @ Surf	NT	NT				
AH-8 @ 1'	1648	NT				
AH-8 @ 2'	252	04				
		Horizo	ntal Sam	nples		
Sample ID	Chloride	TPH		Sample ID	Chloride	TPH
H-N Surf 1	<108	NT		H-S Surf	252	NT
H-N Surf 2	<108	NT		H-E Surf 1	108	NT
H-W Surf 1	<108	NT		H-E Surf 2	252	NT
H-W Surf 2	220	NT				
H-W Surf 3	220	NT				
H-W Surf 4	252	NT				

Release Area (NAPP2113158013), Action Plan

Based on the results above for vertical extent samples AH-1 through AH-15, SESI respectfully recommends the entire leak of release area be remediated to a depth of 2 to 3 foot where applicable. The excavation area is outlined in the map of this release located in this report. Once this remediation plan is approved, Devon will perform the remediation and all removed soil will be disposed of in an OCD-approved landfill. Devon will then conduct both bottom and sidewall confirmation sampling to ensure all contaminated materials have been removed to the most stringent criteria established by NMOCD. Upon receipt of lab results verifying all contaminants have been removed, Devon will backfill the site with uncontaminated soil. If it becomes apparent that facility equipment and/or structure integrity is compromised, SESI respectfully requests deferment of those areas until a later date. If this happens, pictures of the area of equipment/structures will be provided to provide evidence of deferral necessity.

Client Name: Devon Energy Production Company

Site Name: Papas Fritas 27 CTB 1 NMOCD Tracking #: nAPP2127146416

Project #: 22E-01417

Lab Report(sX): 2210378, 2210428, 2210467, 2210780, 2210837, 2210A33, 2210B03, 2210E68

		able 3. Confirmation				Laborator	y Kesults -				eet bgs		
	Sample Descrip	otion	Fi	eld Screeni	ng	Vol	a+ila	Petrole	eum Hydro		_		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds	Extractable Organic	Chloride Concentration	Benzene (mg/kg)	atile (Total) (mg/kg)	යි Gasoline Range Organics ක් (GRO)	B Diesel Range Organics (%) (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	ට Total Petroleum සි Hydrocarbons (TPH)	Chloride Concentration (mg/kg)
BES22-01	2	10/5/2022	0	-	76	ND	ND	ND	ND	ND	ND	ND	ND
BES22-02	2.5	10/19/2022	0	44	360	ND	ND	ND	ND	ND	ND	ND	ND
BES22-03	2	10/5/2022	0	23	75	ND	ND	ND	ND	ND	ND	ND	ND
BES22-04	2.5	10/19/2022	0	1	460	ND	ND	ND	ND	ND	ND	ND	ND
BES22-05	2.5	10/19/2022	0	-	457	ND	ND	ND	ND	ND	ND	ND	ND
BES22-06	2.5	10/19/2022	0	-	457	ND	ND	ND	ND	ND	ND	ND	ND
BES22-07	2.5	10/27/2022	0	-	602	ND	ND	ND	ND	ND	ND	ND	ND
BES22-08	2.5	10/19/2022	0	25	420	ND	ND	ND	ND	ND	ND	ND	ND
BES22-09	2.5	10/19/2022	0	-	512	ND	ND	ND	ND	ND	ND	ND	ND
BES22-10	2.5	10/19/2022	0	-	425	ND	ND	ND	ND	ND	ND	ND	ND
BES22-11	2.5	10/27/2022	0	30	227	ND	ND	ND	ND	ND	ND	ND	ND
BES22-12	2.5	10/19/2022	0	-	617	ND	ND	ND	ND	ND	ND	ND	ND
BES22-13	2.5	10/19/2022	0	15	505	ND	ND	ND	ND	ND	ND	ND	ND
BES22-14	2.5	10/19/2022	0	-	505	ND	ND	ND	ND	ND	ND	ND	ND
BES22-15	2.5	10/19/2022	0	-	235	ND	ND	ND	ND	ND	ND	ND	ND
BES22-16	2	10/5/2022	0	57	385	ND	ND	ND	ND	ND	ND	ND	170
BES22-17	2.5	10/19/2022	0	-	335	ND	ND	ND	ND ND	ND	ND	ND	ND ND
BES22-18	2	10/5/2022	0	-	53 605	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BES22-19	2.5	10/19/2022	0	-		ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND
BES22-20 BES22-21	2	10/5/2022 10/5/2022	0	27	158 163	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	160
BES22-21	2	10/5/2022	0	-	548	ND	ND	ND	ND ND	ND	ND	ND	250
BES22-23	2	10/5/2022	0	_	476	ND	ND	ND	ND	ND	ND	ND	1400
BES22-23	2.5	10/19/2022	0	-	257	ND	ND	ND	ND	ND	ND	ND	ND
BES22-24	2.3	10/5/2022	0	-	161	ND	ND	ND	ND	ND	ND	ND	ND
BES22-25	2.5	10/19/2022	0	-	532	ND	ND	ND	ND	ND	ND	ND	300
BES22-26	2.5	10/19/2022	0	5	608	ND	ND	ND	ND	ND	ND	ND	97
BES22-27	2.5	10/19/2022	0	-	700	ND	ND	ND	ND	ND	ND	ND	790
BES22-27	3	10/27/2022	0	-	325	ND	ND	ND	ND	ND	ND	ND	ND
BES22-28	2.5	10/18/2022	0	-	325	ND	ND	ND	ND	ND	ND	ND	ND
BES22-29	2.5	10/18/2022	0	-	650	ND	ND	ND	ND	ND	ND	ND	220
BES22-30	2.5	10/18/2022	0	26	285	ND	ND	ND	ND	ND	ND	ND	1600
BES22-30	3	10/27/2022	0	-	305	ND	ND	ND	ND	ND	ND	ND	ND
BES22-31	2.5	10/18/2022	0	-	390	ND	ND	ND	ND	ND	ND	ND	850
BES22-31	3	10/27/2022	0	-	387	ND	ND	ND	ND	ND	ND	ND	ND
BES22-32	2	10/5/2022	0	-	715	ND	ND	ND	ND	ND	ND	ND	210
BES22-33	2	10/5/2022	0	38	373	ND	ND	ND	ND	ND	ND	ND	190
BES22-34	2	10/5/2022	0	-	373	ND	ND	ND	ND	ND	ND	ND	420
BES22-35	2.5	10/18/2022	0	-	289	ND	ND	ND	ND	ND	ND	ND	ND 08
BES22-36	2.5	10/18/2022	0	-	302 267	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	98 390
BES22-37	2.5	10/18/2022	0	- 75	405	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND
BES22-38 BES22-39	2.5	10/18/2022	0	/5 -	80	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BES22-39 BES22-40	2	10/5/2022 10/5/2022	0	-	20	ND	ND ND	ND	ND ND	ND ND	ND ND	ND	ND ND
BES22-40 BES22-41	2.5	10/5/2022	0	_	237	ND	ND	ND ND	ND	ND ND	ND ND	ND	ND ND
BES22-41 BES22-42	2.5	10/18/2022	0	_	285	ND	ND	ND	ND	ND	ND	ND	ND
BES22-42 BES22-43	2.5	10/5/2022	0	-	603	ND	ND	ND	ND	ND	ND	ND	580
BES22-44	2.5	10/3/2022	0	18	282	ND	ND	ND	ND	ND	ND	ND	ND
BES22-45	2.3	10/5/2022	0	-	425	ND	ND	ND	ND	ND	ND	ND	250
BES22-45	2	10/5/2022	0	29	118	ND	ND	ND	ND	ND	ND	ND	120
BES22-47	2	10/5/2022	0	-	379	ND	ND	ND	ND	ND	ND	ND	240
BES22-48	2.5	10/14/2022	0	-	320	ND	ND	ND	ND	ND	ND	ND	ND



						and Laboratory Results - Depth to Groundwater <50 feet bgs							
9	Sample Descrip	otion	Fic	eld Screeni	ng	Val	atile	Petrole	eum Hydro				In average
Sample ID	Depth (ft)	Sample Date	Organic Compounds	Organic s (PetroFlag)	Concentration	Voi		Range Organics	Organics	Range Organics		eum s (TPH)	loentration groun
			Volatile Org	Extractable Organic Gompounds (PetroFl	(mdd) (hloride Co	mg/kg)	(ga/kg)	gasoline Ra (gx/(GRO)	may Diesel Range (BX) (DRO)	(Mg/kg) (MRO)	(mg/kg)	Total Petroleum	a) Chloride Concentration (8)
BES22-49	2.5	10/14/2022	0	-	582	ND	ND	ND	ND	ND	ND	ND	ND
BES22-50	2.5	10/14/2022	0	-	466	ND	ND	ND	ND	ND	ND	ND	ND
BES22-51	2.5	10/14/2022	0	-	397 557	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BES22-52 BES22-53	2.5	10/14/2022 10/14/2022	0	-	388	ND	ND	ND	ND	ND	ND	ND	ND
BES22-54	2	10/14/2022	0	-	437	ND	ND	ND	ND	ND	ND	ND	ND
BES22-55	2.5	10/14/2022	0	-	356	ND	ND	ND	ND	ND	ND	ND	ND
BES22-56	2.5	10/14/2022	0	-	312	ND	ND	ND	ND	ND	ND	ND	ND
BES22-57	2.5	10/14/2022	0	-	318 567	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BES22-58 BES22-59	2.5 2.5	10/14/2022 10/14/2022	0	-	486	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BES22-60	2.5	10/14/2022	0	-	350	ND	ND ND	ND	ND	49	ND	49	ND
BES22-61	2.5	10/14/2022	0	-	260	ND	ND	ND	ND	ND	ND	ND	ND
BES22-62	2.5	10/14/2022	0	-	346	ND	ND	ND	ND	ND	ND	ND	ND
BES22-63	2.5	10/14/2022	0	-	321	ND	ND	ND	ND	ND	ND	ND	ND
BES22-64	2.5	10/14/2022	0	-	280 213	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 97
BES22-65 BES22-66	2.5	10/6/2022 10/14/2022	0	-	272	ND	ND	ND ND	ND ND	ND	ND ND	ND	ND
BES22-67	2	10/6/2022	0	-	792	ND	ND	ND	ND	ND	ND	ND	450
BES22-67	2.5	10/14/2022	0	-	232	ND	ND	ND	ND	ND	ND	ND	ND
BES22-68	2.5	10/14/2022	0	-	481	ND	ND	ND	ND	ND	ND	ND	ND
BES22-69	2.5	10/14/2022	0	-	365	ND	ND	ND	ND	ND	ND	ND	ND
BES22-70 BES22-71	2	10/14/2022 10/14/2022	0	58 -	589 602	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BES22-72	2	10/14/2022	0	-	489	ND	ND	ND	ND	ND	ND	ND	ND
BES22-73	2	10/14/2022	0	-	436	ND	ND	ND	ND	ND	ND	ND	ND
BES22-74	2	10/14/2022	0	-	505	ND	ND	ND	ND	ND	ND	ND	ND
BES22-75	2	10/14/2022	0	-	260	ND	ND	ND	ND	ND	ND	ND	ND
BES22-76 BES22-77	2	10/14/2022 10/14/2022	0	- 47	382 561	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BES22-77 BES22-78	2	10/14/2022	0	-	477	ND	ND	ND	ND	ND	ND	ND	ND
BES22-79	2	10/14/2022	0	-	568	ND	ND	ND	ND	ND	ND	ND	ND
BES22-80	2	10/14/2022	0	-	529	ND	ND	ND	ND	ND	ND	ND	ND
BES22-81	2	10/14/2022	0	-	457	ND	ND	ND	ND	ND	ND	ND	ND
BES22-82 BES22-83	2	10/14/2022	0	92	228 610	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BES22-83 BES22-84	2	10/14/2022 10/14/2022	0	-	720	ND	ND	ND	ND	ND	ND ND	ND	ND ND
BES22-85	2	10/6/2022	0	-	1,283	ND	ND	ND	ND	ND	ND	ND	ND
BES22-86	2	10/13/2022	0	18	342	ND	ND	ND	ND	ND	ND	ND	ND
BES22-87	2	10/13/2022	0	-	397	ND	ND	ND	ND	ND	ND	ND	ND
BES22-88	2	10/13/2022	0	-	485 709	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BES22-89 BES22-90	2 4	10/13/2022 10/6/2022	0	- 1	38	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BES22-90 BES22-91	2	10/6/2022	0	-	607	ND	ND	ND	ND	ND	ND	ND	ND
BES22-92	2	10/13/2022	0	48	590	ND	ND	ND	ND	ND	ND	ND	ND
BES22-93	2	10/13/2022	0	-	532	ND	ND	ND	ND	ND	ND	ND	ND
BES22-94	2	10/13/2022	0	61	246	ND	ND	ND	ND	ND	ND	ND	ND 00
BES22-95	4	10/6/2022	0	-	203	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	90 ND
BES22-96 BES22-97	2	10/6/2022 10/13/2022	0	-	435	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BES22-98	2	10/13/2022	0	-	492	ND	ND	ND	ND	ND	ND	ND	ND
BES22-99	2	10/13/2022	0	-	460	ND	ND	ND	ND	ND	ND	ND	ND
BES22-100	2	10/13/2022	0	55	612	ND	ND	ND	ND	ND	ND	ND	ND
BES22-101	4	10/13/2022	0	-	612	ND	ND	ND	ND	ND	ND	ND	ND
BES22-102	4	10/6/2022	0	-	245 447	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	180 ND
BES22-103 BES22-104	2	10/13/2022 10/6/2022	0	-	493	ND ND	ND ND	ND ND	ND	ND	ND ND	ND	410
DLJZZ-1U4	۷	10/0/2022	J	<u> </u>	.55		1 .15	I '15	1 .10	I	I .,D	1	



	ample Descrip	tion		eld Screeni	ng	Vola	-+:l-	Petrole							
			ds			Vola	-1:1-		Petroleum Hydrocarbons						
							atile			Extractable			Inorganic		
Sample ID	Depth (ft)	Sample Date	ර Volatile Organic Compounds මී (PID)	Extractable Organic	Chloride Concentration	Benzene	න් (සි (Total)	3 Gasoline Range Organics කි (GRO)	යි Diesel Range Organics කී (DRO)	ন্ত্ৰ Motor Oil Range Organics জু (MRO)	(gRO + DRO)	ਤੇ Total Petroleum ਲ੍ਹੇ Hydrocarbons (TPH)	a) Chloride Concentration Garage		
BES22-105	2	10/13/2022	0	24	252	ND	ND	ND	ND	ND	ND	ND	ND		
BES22-106	2	10/6/2022	0	5	355	ND	ND	ND	ND	ND	ND	ND	150		
BES22-107	4	10/13/2022	0	-	481	ND	ND	ND	ND	ND	ND	ND	ND		
BES22-108	4	10/6/2022	0	-	431	ND	ND	ND	ND	ND	ND	ND	210		
BES22-109	2	10/6/2022	0	-	635	ND	ND	ND	ND	ND	ND	ND	400		
BES22-110	2	10/13/2022	0	-	462	ND	ND	ND	ND	ND	ND	ND	ND		
BES22-111	2	10/13/2022	0	-	477	ND	ND	ND	ND	ND	ND	ND	ND		
BES22-112	2	10/13/2022	0	20	384	ND	ND	ND	ND	ND	ND	ND	ND		
BES22-113	2	10/13/2022	0		440	ND	ND	ND	ND	ND	ND	ND	ND		
WES22-01	1	10/7/2022	0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WES22-02	1	10/7/2022	0	19	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WES22-03	1	10/19/2022	0	64	300	ND	ND	ND	ND	ND	ND	ND	ND		
WES22-04	1	10/19/2022	0	-	429	ND	ND	ND	ND	ND	ND	ND	ND		
WES22-05	1	10/19/2022	0	-	562	ND	ND	ND	ND	ND	ND	ND	ND		
WES22-06	1	10/19/2022	0	-	605	ND	ND	ND	ND	ND	ND	ND	110		
WES22-07	1	10/19/2022	0	-	622	ND	ND	ND	ND	ND	ND	ND	ND		
WES22-08	1	10/18/2022	0	-	297	ND	ND	ND	ND	ND	ND	ND	ND		
WES22-09	1	10/13/2022	0	-	372	ND	ND	ND	ND	ND	ND	ND	ND		
WES22-10	1	10/18/2022	0	79	535	ND	ND	ND	ND	ND	ND	ND	760		
WES22-10	1	10/27/2022	0	37	622	ND	ND	ND	ND	ND	ND	ND	ND		
WES22-11	1	10/18/2022	0	-	345	ND	ND	ND	ND	ND	ND	ND	120		
WES22-12	2	10/7/2022	0	28	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WES22-13	2	10/18/2022	0	-	190	ND	ND	ND	ND	ND	ND	ND	ND		
WES22-14	2	10/18/2022	0	-	419	ND	ND	ND	ND	ND	ND	ND	160		
WES22-15	1	10/18/2022	0	-	362	ND	ND	ND	ND	ND	ND	ND	66		
WES22-16	1	10/18/2022	0	50	384	ND	ND	ND	ND	ND	ND	ND	130		
WES22-17	1	10/7/2022	0	-	580	ND	ND	ND	ND	ND	ND	ND	350		
WES22-18	1	10/18/2022	0	-	243	ND	ND	ND	ND	ND	ND	ND	180		
WES22-19	1	10/19/2022	0	-	597	ND	ND	ND	ND	ND	ND	ND ND	89		
WES22-20	1	10/7/2022	0	54	343	ND ND	ND	ND ND	ND	ND	ND	ND ND	330		
WES22-21	1	10/7/2022	0	-	290	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 140		
WES22-22	1	10/19/2022	0	- 17	245 352	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	140 97		
WES22-23	1	10/19/2022	0		371	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND		
WES22-24	1	10/18/2022	0		532	ND	ND	ND	ND	ND	ND	ND ND	110		
WES22-25 WES22-26	1	10/19/2022 10/19/2022	0	-	555	ND	ND	ND ND	ND	ND	ND	ND ND	ND		
WES22-26 WES22-27	1	10/19/2022	0	64	428	ND	ND	ND	ND	ND	ND	ND	ND		
WES22-27 WES22-28	1	10/19/2022	0	21	605	ND	ND	ND	ND	ND	ND	ND	ND		
WES22-28	1	10/19/2022	0		490	ND	ND	ND	ND	ND	ND	ND	ND		
WES22-29	1	10/7/2022	0	23	24	ND	ND	ND	ND	ND	ND	ND	110		
WES22-30	1	10/19/2022	0	-	612	ND	ND	ND	ND	ND	ND	ND	ND		
WES22-32	1	10/19/2022	0	-	540	ND	ND	ND	ND	ND	ND	ND	ND		
WES22-33	1	10/19/2022	0	-	529	ND	ND	ND	ND	ND	ND	ND	ND		
WES22-34	1	10/7/2022	0	_	ND	ND	ND	ND	ND	ND	ND	ND	ND		
WES22-35	1	10/7/2022	0	_	20	ND	ND	ND	ND	ND	ND	ND	300		

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

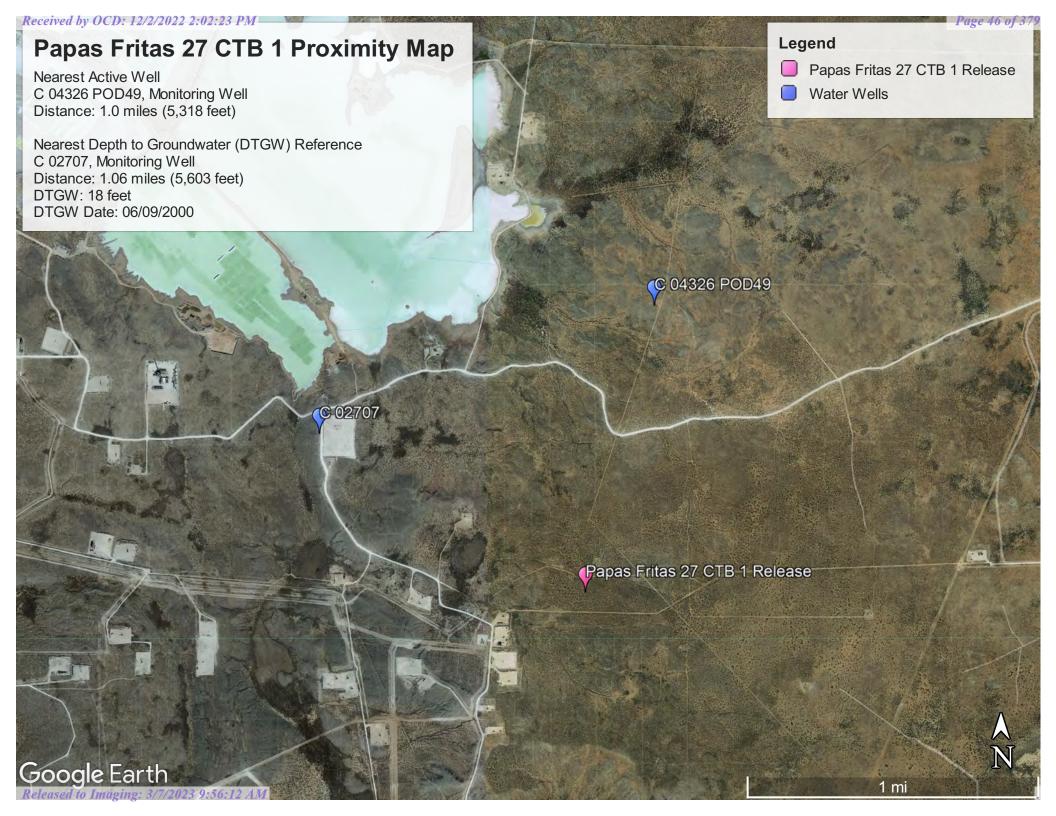
Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)

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



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

ATTACHMENT 4





Intermittent 3,555 feet



May 3, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Freshwater Forested/Shrub Wetland

Lake

Other

Riverine

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



Pond 2,002 feet



May 3, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

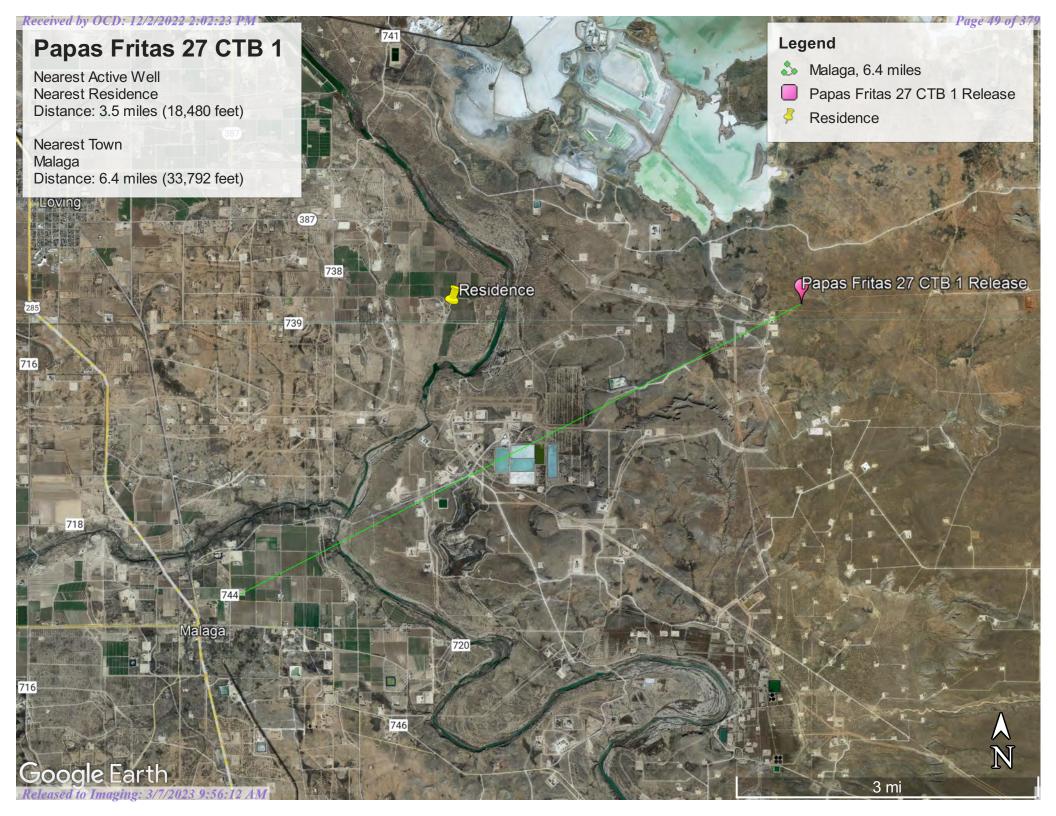
Lake

Riverine

Freshwater Forested/Shrub Wetland

Other

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





New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag

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

X

C 04326 POD49 3 23 23S 29E NA

597378 3572591



Driller License:

Driller Company:

Driller Name:

Drill Start Date: Drill Finish Date: Log File Date: **PCW Rcv Date:**

Source:

Plug Date:

Pump Type:

Casing Size:

Pipe Discharge Size:

Estimated Yield:

Depth Well: Depth Water:

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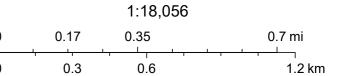
5/3/22 1:45 PM

POINT OF DIVERSION SUMMARY

OSE POD Locations 0.5 mile







Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, U.S. Department of Energy Office of Legacy



New Mexico Office of the State Engineer

Water Right Summary



WR File Number: C 02707

Subbasin: C

Cross Reference:

Primary Purpose:

Primary Status:

PERMIT PMT

Total Acres:

Subfile:

Header: -

Total Diversion:

Doc

Cause/Case:

Owner:

IMC KALIUM

Contact:

SCOTT VAIL

Documents on File

Status

From/

Transaction Desc.

To

Diversion Consumptive

2000-05-15

2 PMT LOG C 02707

T

3

Current Points of Diversion

Q

(NAD83 UTM in meters)

POD Number C 02707

File/Act

Well Tag Source 64Q16Q4Sec Tws Rng

Other Location Desc

Shallow 2 28 23S 29E

An () after northing value indicates UTM location was derived from PLSS - see Help

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5/3/22 1:59 PM

WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Water Right Summary



WR File Number: C 04326 Subbasin: CUB Cross Reference: -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Agent: LT ENVIRONMENTAL INC

Contact: STUART HYDE, LG
User: XTO ENERGY INC
Contact: KYLE LITTRELL

Documents on File

				Sta	itus		From/			
	Trn#	Doc	File/Act	1	2	Transaction Desc.	To	Acres	Diversion	Consumptive
get images		EXPL	2020-12-28	PMT	APR	C 04326 POD47-53	T	0	0	
get images	681901	EXPL	2020-11-18	PMT	APR	C 04326 POD46	T	0	0	
get images	668116	EXPL	2020-02-24	PMT	APR	C 04326 POD44-45	T	0	0	
get images		EXPL	2020-01-02	PMT	APR	C 04326 POD40-43	T	0	0	
get images		EXPL	2019-10-29	PMT	APR	C 04326 POD30-39	T	0	0	
get images	658978	EXPL	2019-09-20	PMT	APR	C 04326 POD17-29	T	0	0	
get images		EXPL	2019-05-08	PMT	LOG	C 04326 POD1-16	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

			Q								
POD Number	Well Tag	Source	64	Q16	Q4	Sec	Tws F	Rng	X	Y	Other Location Desc
C 04326 POD1	NA		1	2	3	23	23S 2	29E	598125	3572992	BH01
<u>C 04326 POD10</u>	NA		4	2	3	23	23S 2	29E	598170	3572882	BH10
<u>C 04326 POD11</u>	NA		4	2	3	23	23S 2	29E	598221	3572827	BH11
<u>C 04326 POD12</u>	NA		4	2	3	23	23S 2	29E	598229	3572790	BH12
<u>C 04326 POD13</u>	NA		4	2	3	23	23S 2	29E	598250	3572791	BH13
<u>C 04326 POD14</u>	NA	Shallow	4	2	3	23	23S 2	29E	598191	3572765	BH14
<u>C 04326 POD15</u>	NA		2	4	3	23	23S 2	29E	598202	3572692	BH15
C 04326 POD16	NA	Shallow	2	4	3	23	23S 2	29E	598209	3572664	BH16
<u>C 04326 POD17</u>	NA		4	2	3	23	23S 2	29E	598198	3572729	BH17
<u>C 04326 POD18</u>	NA		4	2	3	23	23S 2	29E	598169	3572792	BH18
<u>C 04326 POD19</u>	NA		2	4	3	23	23S 2	29E	598233	3572673	BH19
<u>C 04326 POD2</u>	NA		1	2	3	23	23S 2	29E	598156	3572980	BH02
C 04326 POD20	NA		2	4	3	23	23S 2	29E	598250	3572684	BH20
<u>C 04326 POD21</u>	NA		2	4	3	23	23S 2	29E	598250	3572654	BH21
<u>C 04326 POD22</u>	NA		4	2	3	23	23S 2	29E	598229	3572722	BH22
<u>C 04326 POD23</u>	NA		1	4	3	23	23S 2	29E	598166	3572662	BH23
<u>C 04326 POD24</u>	NA		3	2	3	23	23S 2	29E	598160	3572716	BH24
<u>C 04326 POD25</u>	NA		3	2	3	23	23S 2	29E	598124	3572747	BH25

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Receive	ed_by_Q6B512/2/202	2 _{NA} :02:23 PM	4	2	3	23	23S 29E	598193	3572746	RW01/BH26
<u>C</u>	C 04326 POD27	NA	2	4	3	23	23S 29E	598272	3572684	MW01
<u>C</u>	C 04326 POD28	NA	2	4	3	23	23S 29E	598205	3572644	MW02
<u>C</u>	C 04326 POD29	NA	3	2	3	23	23S 29E	598145	3572769	MW03
<u>C</u>	C 04326 POD3	NA	1	2	3	23	23S 29E	598156	3572962	BH03
<u>C</u>	C 04326 POD30	NA	4	2	3	23	23S 29E	598178	3572763	BH-27
<u>C</u>	C 04326 POD31	NA	4	2	3	23	23S 29E	598259	3572726	BH-28
<u>C</u>	C 04326 POD32	NA	4	2	3	23	23S 29E	598253	3572726	BH-29
<u>C</u>	C 04326 POD33	NA	4	2	3	23	23S 29E	598253	3572750	BH-30
<u>C</u>	C 04326 POD34	NA	2	4	3	23	23S 29E	598266	3572696	BH-31
<u>C</u>	C 04326 POD35	NA	3	2	3	23	23S 29E	598142	3572767	BH-35
<u>C</u>	C 04326 POD36	NA	4	2	3	23	23S 29E	598256	3572777	BH-33
<u>C</u>	C 04326 POD37	NA	4	2	3	23	23S 29E	598282	3572751	BH-34
<u>C</u>	C 04326 POD38	NA	2	4	3	23	23S 29E	598217	3572633	BH-35
<u>C</u>	C 04326 POD39	NA	2	4	3	23	23S 29E	598266	3572683	BH-36
<u>C</u>	C 04326 POD4	NA	1	2	3	23	23S 29E	598136	3572962	BH04
<u>C</u>	C 04326 POD40	NA		2	3	23	23S 29E	598115	3572815	BH-37
<u>C</u>	C 04326 POD41	NA		2	3	23	23S 29E	598098	3572775	BH-38
<u>C</u>	C 04326 POD42	NA		2	3	23	23S 29E	598113	3572694	BH-39
<u>C</u>	C 04326 POD43	NA		2	3	23	23S 29E	598154	3572971	BH-40
<u>C</u>	C 04326 POD44	NA	3	2	3	23	23S 29E	598050	3572781	BH-49
<u>C</u>	C 04326 POD45	NA	3	2	3	23	23S 29E	598096	3572822	BH-50
<u>C</u>	C 04326 POD46	NA	3	2	3	23	23S 29E	598132	3572748	BH61
<u>C</u>	C 04326 POD47	NA	1	4	3	23	23S 29E	598129	3572612	BH54
<u>C</u>	C 04326 POD48	NA	1	4	3	23	23S 29E	598111	3572597	BH55
<u>C</u>	C 04326 POD49	NA	2	4	3	23	23S 29E	597378	3572591	BH56
<u>C</u>	C 04326 POD5	NA	2	2	3	23	23S 29E	598170	3572940	BH05
<u>C</u>	C 04326 POD50	NA	3	2	3	23	23S 29E	597992	3572782	BH57
<u>C</u>	C 04326 POD51	NA	3	2	3	23	23S 29E	598035	3572817	BH58
<u>C</u>	C 04326 POD52	NA	4	2	3	23	23S 29E	598367	3572767	BH59
<u>C</u>	C 04326 POD53	NA	4	2	3	23	23S 29E	598326	3572820	BH60
<u>C</u>	C 04326 POD6	NA	1	2	3	23	23S 29E	598125	3572940	BH06

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598157

598097

598136

3 2 3 23 23S 29E

3 2 3 23 23S 29E

3 2 3 23 23S 29E

3572894 ABH07

3572884 BH08

3572873 BH09

5/3/22 1:46 PM WATER RIGHT SUMMARY

C 04326 POD7

C 04326 POD8

C 04326 POD9

NA

NA

NA



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

		(acre ft per ann	um)				(R=POD has been replaced and no longer serves this file, C=the file is closed)		rs are 1=1			=SW 4=SE)		83 UTM in meters)	
WR File Nbr	Sub basin CUB	Use Diversio	on Owner 0 VALLEY LAND COMPANY	County ED	POD Number <u>C 01090</u>	Well Tag	Code Grant	Source	q q q 6416 4 2 2		Tws 24S		X 592563	Y 3568831*	Distance 4955
<u>C 01091</u>	CUB	EXP	0 VALLEY LAND CO.	ED	<u>C 01091</u>				2 2	06	24S	29E	592563	3568831*	4955
<u>C 01217</u>	CUB	COM 1	50 INTREPID MINING NM LLC US BANK	ED	<u>C 01217 S</u>			Shallow	4 1 4	16	23S	29E	595413	3574403*	3750
C 01627	C	PRO	NATIONAL ASSOCIATION 0 EXXON CORPORATION	ED	<u>C 01627</u>				1 4 4	28	23S	29E	595649	3570959*	1364
<u>C 02012</u>	C	STK	3 HENRY H GRANDI	ED	<u>C 02012</u>				3	16	23S	29E	594705	3574293*	4012
<u>C 02182</u>	С	PRO	0 SANTA FE ENERGY	ED	<u>C 02182</u>			Shallow	4	30	23S	29E	592328	3571048*	4685
<u>C 02486</u>	C	PRO	0 TEXACO EXPLORATION & PROD.	ED	<u>C 02486</u>				3 2 3	19	23S	30E	601304	3572832*	4661
<u>C 02500</u>	CUB	EXP	0 UNITED SALT CORPORATION	ED	<u>C 02500</u>				4 3 2	17	23S	29E	593800	3574791*	4961
<u>C 02608</u>	CUB	EXP	0 UNITED SALT CORPORATION	ED	<u>C 02608</u>			Shallow	3 1 4	17	23S	29E	593598	3574387*	4802
<u>C 02613</u>	CUB	EXP	0 UNITED SALT CORPORATION	ED	<u>C 02613</u>				4 4 2	20	23S	29E	594203	3573176*	3547
<u>C 02622</u>	CUB	COM	0 UNITED SALT CORPORATION	ED	<u>C 01217 S</u>			Shallow	4 1 4	16	23S	29E	595413	3574403*	3750
<u>C 02707</u>	C		0 IMC KALIUM	ED	<u>C 02707</u>			Shallow	2	28	23S	29E	595535	3571868*	1708
<u>C 02715</u>	CUB	MON	0 UNITED SALT CORPORATION	ED	<u>C 02715</u>				4 1 3	15	23S	29E	596221	3574411*	3491
<u>C 02716</u>	CUB	MON	0 UNITED SALT CORPORATION	ED	<u>C 02716</u>				4 4 4	16	23S	29E	595818	3574002*	3220
<u>C 02717</u>	CUB	MON	0 UNITED SALT CORPORATION	ED	<u>C 02717</u>				4 2 4	16	23S	29E	595817	3574407*	3600
<u>C 02718</u>	CUB	MON	0 UNITED SALT CORPORATION	ED	<u>C 02718</u>				4 4 2	16	23S	29E	595816	3574812*	3985
<u>C 02720</u>	CUB	MON	0 JOHN WOZNICWICZ	ED	<u>C 02720</u>				2 1	21	23S	29E	594911	3573690*	3405
<u>C 02721</u>	CUB	MON	0 JOHN WOZNICWICZ	ED	<u>C 02721</u>				2 3	21	23S	29E	594915	3572879*	2809
<u>C 02794</u>	CUB	MON	0 IMC	ED	<u>C 02794</u>				4 3	10	23S	29E	596518	3575731*	4745
<u>C 02795</u>	CUB	MON	0 IMC	ED	<u>C 02795</u>				4 3	10	23S	29E	596518	3575731*	4745
<u>C 02797</u>	CUB	MON	0 IMC	ED	<u>C 02797</u>				2 3	22	23S	29E	596540	3572895*	1942
<u>C 02808</u>	CUB	MON	0 IMC	ED	<u>C 02808</u>				2 3	16	23S	29E	594909	3574501*	4075
C 02809	CUB	MON	0 IMC	ED	<u>C 02809</u>				2 3	16	23S	29E	594909	3574501*	4075
C 03057	CUB	EXP	0 UNITED SALT CORPORATION	ED	C 03057 EXPLORE				4 1 1	21	23S	29E	594605	3573586*	3525
<u>C 03058</u>	CUB		0 UNITED SALT CORPORATION	ED	C 03058 EXPLORE				4 1 1	16	23S	29E	594605	3575206*	4836
<u>C 03377</u>	С	STK	3 B F & G FARMS	ED	<u>C 03377 POD1</u>				3 3 2	29	23S	29E	593596	3571587	3465
<u>C 03587</u>	CUB	MON	0 MOSAIC POTASH CARLSBAD INC	ED	<u>C 03587 POD1</u>			Shallow	1 4 3	29	23S	29E	593337	3570754	3684
<u>C 04326</u>	CUB	MON	0 LT ENVIRONMENTAL INC	ED	<u>C 04326 POD1</u>	NA			1 2 3	23	23S	29E	598124	3572992	2272
				ED	<u>C 04326 POD10</u>				4 2 3	23	23S	29E	598170	3572882	2200
					C 04326 POD11				4 2 3				598220	3572827	2181
				ED	C 04326 POD12				4 2 3				598228	3572790	2155
				ED	C 04326 POD13				4 2 3				598249	3572791	2167
				ED	C 04326 POD14			Shallow	4 2 3				598190	3572765	2113
				ED	C 04326 POD15				2 4 3				598202	3572692	2059
				ED	C 04326 POD16			Shallow	2 4 3				598209	3572664	2040
				ED	C 04326 POD17				4 2 3				598198	3572729	2087
				ED	C 04326 POD18 C 04326 POD19				4 2 3				598168	3572792	2123
				ED					2 4 3				598232	3572673	2062
				ED ED	C 04326 POD2 C 04326 POD20				1 2 3				598156	3572980	2277
					C 04326 POD21				2 4 3				598249	3572684	2080
				ED	C 04326 POD22				2 4 3				598250	3572654	2056
				ED ED	C 04326 POD23				4 2 3				598228 598166	3572722	2099 2014
				ED	C 04326 POD24				3 2 3				598160	3572662	2014
				ED	C 04326 POD25				3 2 3				598123	3572747	2061
				ED	C 04326 POD26				4 2 3				598123	3572746	2099
				ED	C 04326 POD27				2 4 3				598272	3572684	2099
				ED	C 04326 POD28				2 4 3				598204	3572644	2022
					C 04326 POD29				3 2 3				598145	3572769	2091
Released 1	to Im	aging: 3	/7/2023 9:56:12 AM	20							220		2.0.10	22.270	

Receive	d by OCD: 12	2/2/2022 2:02:23 PM				5004.54	Page 56	of 3.79
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			ED <u>C 04326 POD30</u>		4 2 3 23 23S 29E	598177	3572763	2104
			ED <u>C 04326 POD31</u>		4 2 3 23 23S 29E	598258	3572726	2120
			ED <u>C 04326 POD32</u>		4 2 3 23 23S 29E	598253	3572726	2116
			ED <u>C 04326 POD33</u>		4 2 3 23 23S 29E	598253	3572750	2136
			ED <u>C 04326 POD34</u>		2 4 3 23 23S 29E	598265	3572696	2099
			ED <u>C 04326 POD35</u>		3 2 3 23 23S 29E	598142	3572767	2088
			ED <u>C 04326 POD36</u>		4 2 3 23 23S 29E	598256	3572777	2160
			ED <u>C 04326 POD37</u>		4 2 3 23 23S 29E	598282	3572751	2154
			ED <u>C 04326 POD38</u>		2 4 3 23 23S 29E	598216	3572633	2019
			ED <u>C 04326 POD39</u>		2 4 3 23 23S 29E	598266	3572683	2090
			ED <u>C 04326 POD4</u>		1 2 3 23 23S 29E	598135	3572962	2251
			ED <u>C 04326 POD40</u>		2 3 23 23S 29E	598114	3572815	2114
			ED <u>C 04326 POD41</u>		2 3 23 23S 29E	598097	3572775	2071
			ED <u>C 04326 POD42</u>		2 3 23 23S 29E	598113	3572694	2010
			ED <u>C 04326 POD43</u>		2 3 23 23S 29E	598153	3572971	2267
			ED <u>C 04326 POD44</u>		3 2 3 23 23S 29E	598050	3572781	2051
			ED <u>C 04326 POD45</u>		3 2 3 23 23S 29E	598095	3572822	2110
			ED <u>C 04326 POD46</u>		3 2 3 23 23S 29E	598131	3572748	2066
			ED <u>C 04326 POD47</u>		1 4 3 23 23S 29E	598128	3572612	1951
			ED <u>C 04326 POD48</u>		1 4 3 23 23S 29E	598111	3572597	1929
			ED <u>C 04326 POD49</u>		2 4 3 23 23S 29E	597378	3572591	1621
			ED <u>C 04326 POD5</u>		2 2 3 23 23S 29E	598169	3572940	2249
			ED <u>C 04326 POD50</u>		3 2 3 23 23S 29E	597992	3572782	2023
			ED <u>C 04326 POD51</u>		3 2 3 23 23S 29E	598034	3572817	2075
			ED <u>C 04326 POD52</u>		4 2 3 23 23S 29E	598366	3572767	2218
			ED <u>C 04326 POD53</u>		4 2 3 23 23S 29E	598325	3572820	2235
			ED <u>C 04326 POD6</u>		1 2 3 23 23S 29E	598125	3572940	2227
			ED <u>C 04326 POD7</u>		3 2 3 23 23S 29E	598157	3572894	2203
			ED <u>C 04326 POD8</u>		3 2 3 23 23S 29E	598097	3572884	2164
			ED <u>C 04326 POD9</u>		3 2 3 23 23S 29E	598136	3572873	2175
<u>C 04456</u>	CUB MON	0 XTO ENERGY INC	ED <u>C 04456 POD1</u>	NA	1 4 3 23 23S 29E	598112	3572682	2000
			ED <u>C 04456 POD2</u>		3 2 3 23 23S 29E	598103	3572791	2087
			ED <u>C 04456 POD3</u>		3 2 3 23 23S 29E	598134	3572815	2124
			ED <u>C 04456 POD4</u>		1 4 1 23 23S 29E	598126	3572657	1987
<u>C 04481</u>	CUB GEO	0 XCEL ENERGY	ED <u>C 04481 POD1</u>	NA	1 3 4 03 24S 29E	596798	3567778	3239
			ED <u>C 04481 POD2</u>		1 3 4 03 24S 29E	596851	3567748	3266
			ED <u>C 04481 POD3</u>		2 4 3 03 24S 29E	596798	3567778	3239
			ED <u>C 04481 POD4</u>		2 4 3 03 24S 29E	596747	3567685	3335
			ED <u>C 04481 POD5</u>		2 4 3 03 24S 29E	596746	3567747	3274
			ED <u>C 04481 POD6</u>		2 4 3 03 24S 29E	596747	3567654	3366
			ED <u>C 04481 POD7</u>		2 4 3 03 14S 29E	596800	3567655	3362
			ED <u>C 04481 POD8</u>		1 3 4 03 24S 29E	596852	3567655	3358
<u>C 04494</u>	CUB MON	0 LT ENVIRONMENTAL INC	ED <u>C 04494 POD1</u>	NA	2 2 3 25 23S 29E	599857	3571337	2862
<u>C 04597</u>	CUB MON	0 XTO ENERGY INC	ED <u>C 04597 POD1</u>	NA	1 1 4 24 23S 29E	600124	3573002	3694
			ED <u>C 04597 POD10</u>		3 1 4 24 23S 29E	600145	3572875	3645
			ED <u>C 04597 POD11</u>		4 1 4 24 23S 29E	600606	3572878	4049
			ED <u>C 04597 POD12</u>		4 1 4 24 23S 29E	600188	3572860	3674
			ED <u>C 04597 POD2</u>		1 1 4 24 23S 29E	600122	3572959	3669
			ED <u>C 04597 POD3</u>		1 1 4 24 23S 29E	600171	3572991	3727
			ED <u>C 04597 POD4</u>		1 1 4 24 23S 29E	600158	3572947	3693
			ED <u>C 04597 POD5</u>		2 1 4 24 23S 29E	600198	3572931	3719
			ED <u>C 04597 POD6</u>		4 1 4 24 23S 29E	600221	3572917	3732
			ED <u>C 04597 POD7</u>		4 1 4 24 23S 29E	600213	3572893	3712
			ED <u>C 04597 POD9</u>		3 1 4 24 23S 29E	600173	3572902	3682
Record Coun	tk 104	2/7/2022 0.56.12 434						

Easting (X): 597013 **Northing (Y):** 3571011 Radius: 5000

Sorted by: File Number

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/3/22 1:24 PM ACTIVE & INACTIVE POINTS OF DIVERSION



Wetland 4,486 feet



May 3, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

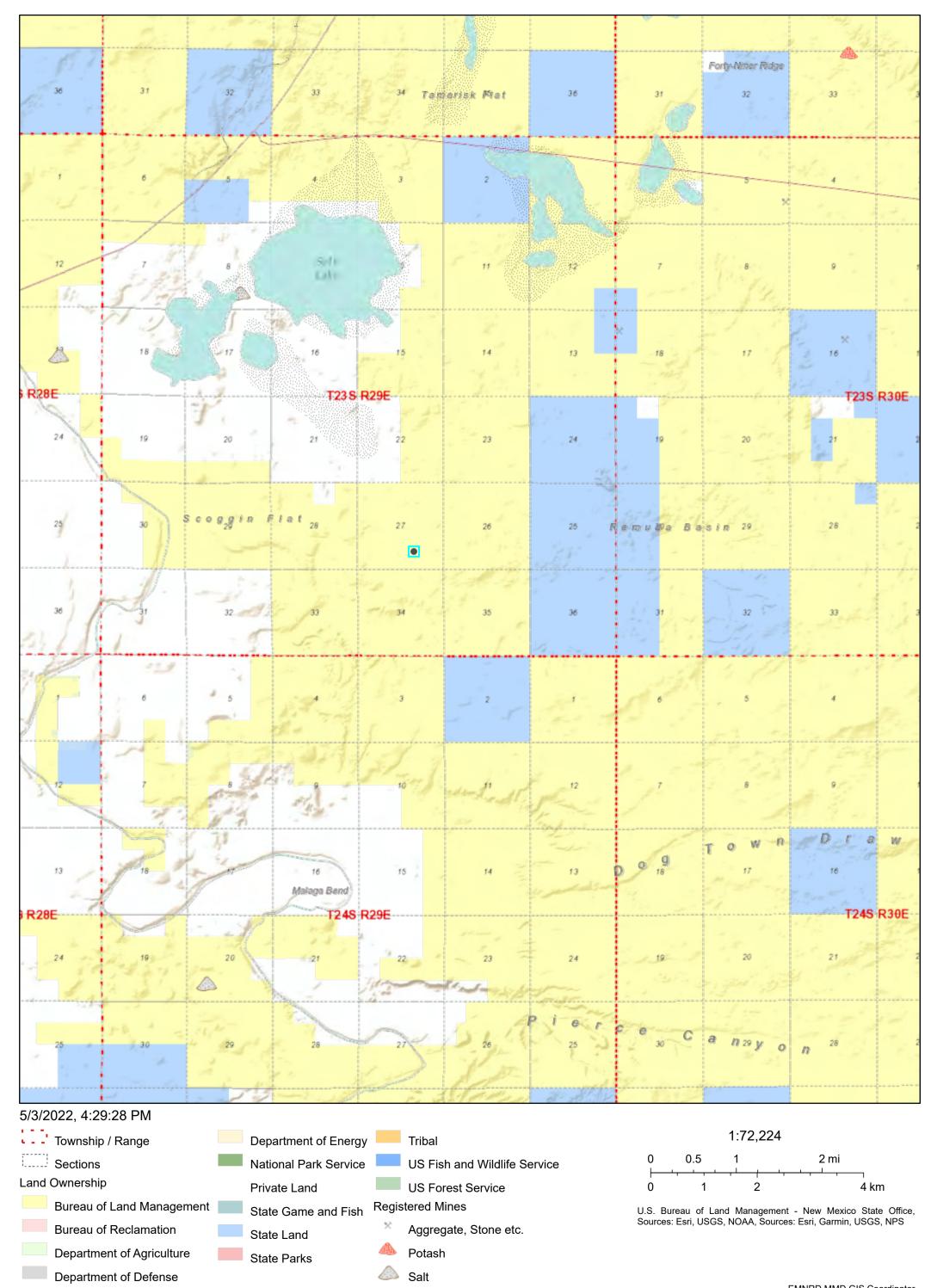
Lake

Other

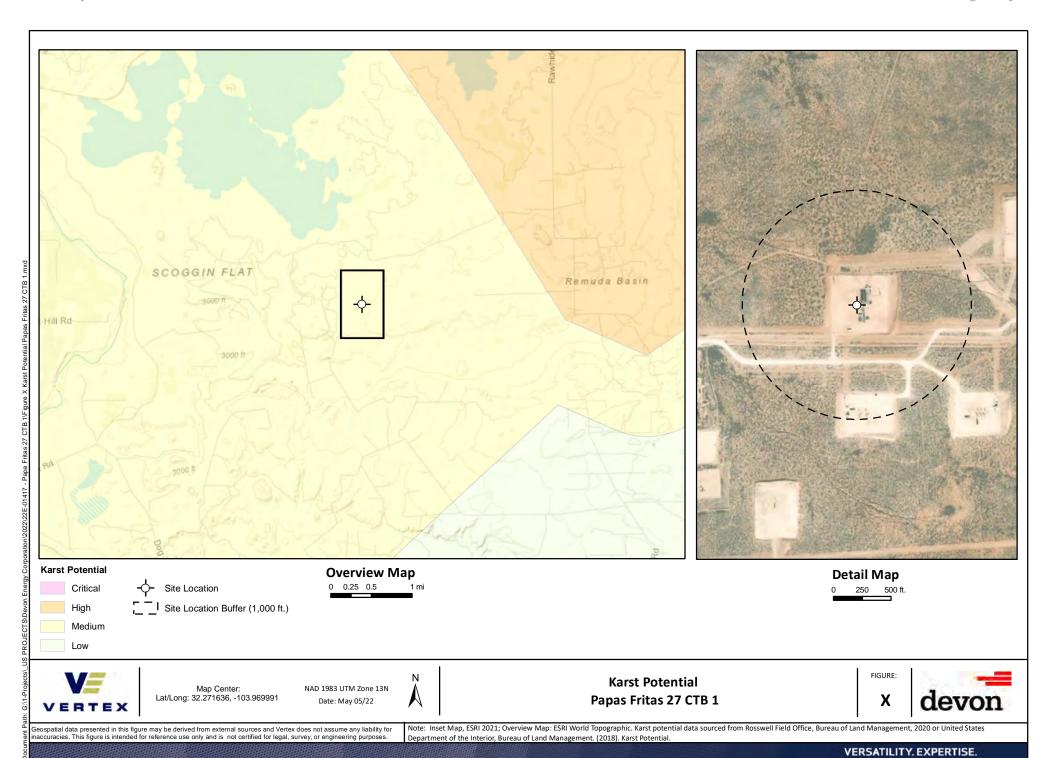
Riverine

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

Active Mines in New Mexico



Received by OCD: 12/2/2022 2:02:23 PM



OReleas 250 to Imaging: 3/7/2023 9:909:12 AM

Received by OCD: 12/2/2022 2:02:23,PM National Flood Hazard Layer FIRMette





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

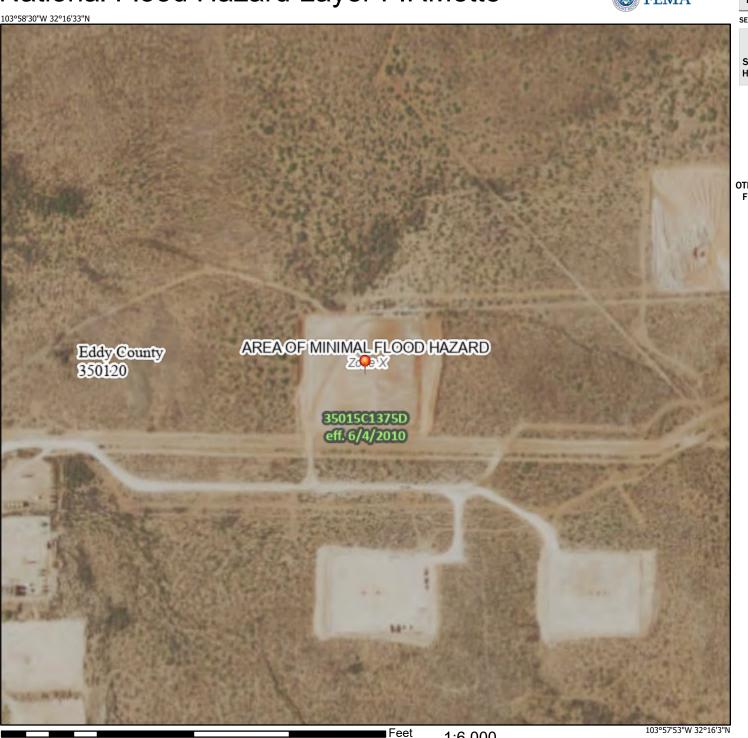
Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLIL Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study **Jurisdiction Boundary** — --- Coastal Transect Baseline OTHER **Profile Baseline FEATURES** Hydrographic Feature Digital Data Available No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/3/2022 at 6:33 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

an authoritative property location.

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



2.000



VRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eddy Area, New Mexico



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

Custom Soil Resource Report

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

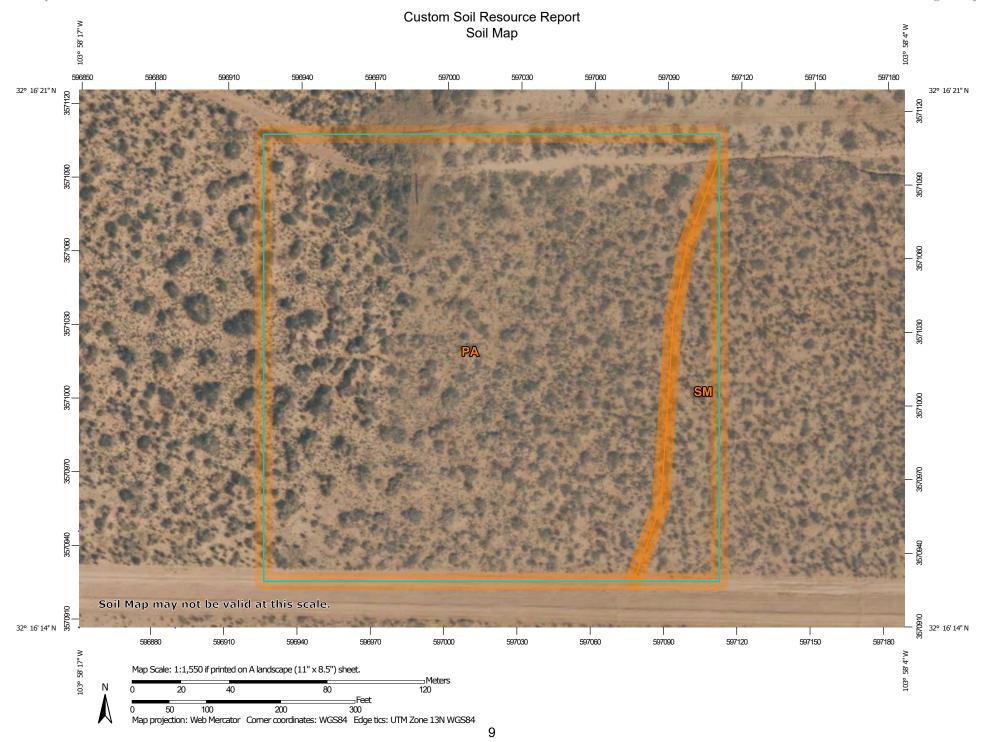
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

ဖ

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill

Lava Flow Marsh or swamp

Mine or Quarry

Miscellaneous Water

Perennial Water

Rock Outcrop

Saline Spot Sandy Spot

Severely Eroded Spot

Sinkhole

Slide or Slip

Sodic Spot

å

Spoil Area Stony Spot

Very Stony Spot

Ŷ

Wet Spot Other

Δ

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes Major Roads

00

Local Roads

Background

Aerial Photography

MAP INFORMATION

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

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

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

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

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

Coordinate System: Web Mercator (EPSG:3857)

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

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

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

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12. 2020

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PA	Pajarito loamy fine sand, 0 to 3 percent slopes, eroded	7.6	90.4%
SM	Simona-Bippus complex, 0 to 5 percent slopes	0.8	9.6%
Totals for Area of Interest		8.4	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Eddy Area, New Mexico

PA—Pajarito loamy fine sand, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w54 Elevation: 2,700 to 5,500 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 250 days

Farmland classification: Not prime farmland

Map Unit Composition

Pajarito and similar soils: 98 percent Minor components: 2 percent

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

Description of Pajarito

Setting

Landform: Plains, interdunes, dunes

Landform position (three-dimensional): Side slope

Down-slope shape: Convex, linear Across-slope shape: Linear, convex

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 13 inches: loamy fine sand H2 - 13 to 36 inches: fine sandy loam H3 - 36 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00

in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 7.9 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Wink

Percent of map unit: 1 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Berino

Percent of map unit: 1 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

SM—Simona-Bippus complex, 0 to 5 percent slopes

Map Unit Setting

National map unit symbol: 1w5x Elevation: 1,800 to 5,000 feet

Mean annual precipitation: 8 to 24 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 55 percent Bippus and similar soils: 30 percent Minor components: 15 percent

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

Description of Simona

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 19 inches: gravelly fine sandy loam

H2 - 19 to 23 inches: indurated

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained Runoff class: Very high

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

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 2.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: R042XC002NM - Shallow Sandy

Hydric soil rating: No

Description of Bippus

Setting

Landform: Flood plains, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear Across-slope shape: Linear Parent material: Mixed alluvium

Typical profile

H1 - 0 to 37 inches: silty clay loam H2 - 37 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches Frequency of flooding: OccasionalNone

Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: R042XC017NM - Bottomland

Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 8 percent

Ecological site: R042XC002NM - Shallow Sandy

Hydric soil rating: No

Bippus

Percent of map unit: 7 percent

Ecological site: R042XC017NM - Bottomland

Hydric soil rating: No

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 054262

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053577

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053580

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2 053374

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf



Ecological site R042XC003NM Loamy Sand

Accessed: 05/03/2022

General information



Figure 1. Mapped extent

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

Associated sites

R042XC004NM	Sandy Sandy
R042XC005NM	Deep Sand Deep Sand

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site is on uplands, plains, dunes, fan piedmonts and in inter dunal areas. The parent material consists of mixed alluvium and or eolian sands derived from sedimentary rock. Slope range on this site range from 0 to 9 percent with the average of 5 percent.

Low stabilized dunes may occur occasionally on this site. Elevations range from 2,800 to 5,000 feet.

Table 2. Representative physiographic features

Landforms	(1) Fan piedmont(2) Alluvial fan(3) Dune
Elevation	2,800–5,000 ft
Slope	0–9%
Aspect	Aspect is not a significant factor

Climatic features

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

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

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

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

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

Table 3. Representative climatic features

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

Influencing water features

This site is not influenced from water from wetlands or streams.

Soil features

Soils are moderately deep or very deep. Surface textures are loamy fine sand, fine sandy loam, loamy very fine sand or gravelly sandy loam.

Subsurface is a loamy fine sand, coarse sandy loam, fine sandy loam or loam that averages less than 18 percent clay and less than 15 percent carbonates.

Substratum is a fine sandy loam or gravelly fine sandy loam with less than 15 percent gravel and with less than 40 percent calcium carbonate. Some layers high in lime or with caliche fragments may occur at depths of 20 to 30 inches.

These soils, if unprotected by plant cover and organic residue, become wind blown and low hummocks are formed.

Minimum and maximum values listed below represent the characteristic soils for this site.

Characteristic soils are:

Maljamar

Berino

Parjarito Palomas Wink

Pyote

Table 4. Representative soil features

Surface texture	(1) Fine sand(2) Fine sandy loam(3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to moderately rapid
Soil depth	40–72 in
Surface fragment cover <=3"	0–10%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–7 in
Calcium carbonate equivalent (0-40in)	3–40%
Electrical conductivity (0-40in)	2–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	4–12%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

Overview

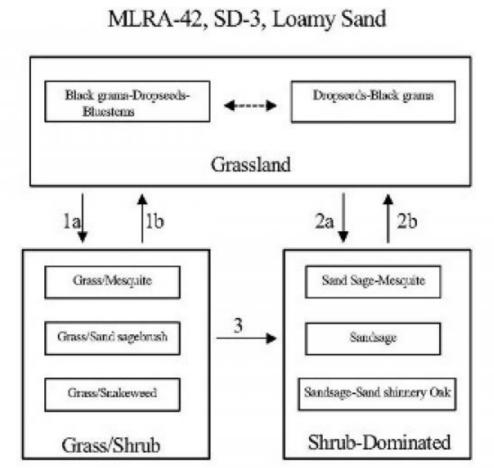
The Loamy Sand site intergrades with the Deep Sand and Sandy sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured (sandy loam and fine sandy loam) surfaces. Although Loamy Sand and Deep Sand sites have similar surface textures, the depth to a textural change is different—Loamy Sand sub-surface textures typically increase in clay at approximately 20 to 30 inches, and Deep Sand sites not until around 40 inches.

The historic plant community of Loamy Sand sites is dominated by black grama (*Bouteloua eriopoda*), dropseeds (*Sporobolus flexuosus*, *S. contractus*, *S. cryptandrus*), and bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), with scattered shinnery oak (*Quercus havardii*) and sand sage (*Artemisia filifolia*). Perennial and annual forb abundance and distribution are dependent on precipitation. Litter and to a lesser extent, bare ground, are a significant proportion of ground cover while grasses compose the remainder. Decreases in black grama indicate a transition to either a grass/shrub or shrub-dominated state. The grass/shrub state is composed of grasses/honey mesquite (*Prosopis glandulosa*), grasses/broom snakeweed (*Gutierrezia sarothrae*), or grasses/sand sage. The shrub-dominated state occurs after a severe loss of grass cover and a prevalence of sand sage with secondary shinnery oak and mesquite. Heavy grazing intensity and/or drought are influential drivers in decreasing black grama and bluestems and subsequently increasing shrub cover, erosion, and bare patches. Historical fire suppression also encourages shrub pervasiveness and a competitive advantage over grass species (McPherson 1995). Brush and grazing management, however, may reverse grass/shrub and shrub-dominated states toward the grassland-

dominated historic plant community.

State and transition model

Plant Communities and Transitional Pathways (diagram):



- 1a. Drought, over grazing, fire suppression.
- 1b. Brush control, prescribed grazing
- 2.a Severe loss of grass cover, fire suppression, erosion.
- Brush control, seeding, prescribed grazing.
- 3. Continued loss of grass cover, erosion.

Figure 4.

State 1 Historic Climax Plant Community

Community 1.1 Historic Climax Plant Community

Grassland: The historic plant community is a uniformly distributed grassland dominated by black grama, dropseeds, and bluestems. Sand sage and shinnery oak are evenly dispersed throughout the grassland due to the coarse soil surface texture. Perennial and annual forbs are common but their abundance and distribution are reflective of precipitation. Bluestems initially, followed by black grama, decrease with drought and heavy grazing intensity. Historical fire frequency is unknown but likely occurred enough to remove small shrubs to the competitive advantage of grass species. Fire suppression, drought conditions, and excessive grazing drive most grass species out of competition with shrub species.

Diagnosis: Grassland dominated by black grama, dropseeds, and bluestems. Shrubs, such as sand sage, shinnery oak, and mesquite are dispersed throughout the grassland. Forbs are present and populations fluctuate with precipitation variability.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	
Grass/Grasslike	442	833	1224
Forb	110	208	306
Shrub/Vine	98	184	270
Total	650	1225	1800

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	28%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	50%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	22%

Figure 6. Plant community growth curve (percent production by month). NM2803, R042XC003NM-Loamy Sand-HCPC. SD-3 Loamy Sand - Warm season plant community .

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	3	5	10	10	25	30	12	5	0	0

State 2 Grass/Shrub

Community 2.1 Grass/Shrub





*Blade grama/Mesquite community, with some dropseeds, threewas, and scattered sand shinnery oak *Ones cover low to moderate

Grass/Shrub State: The grass/shrub state is dominated by communities of grasses/mesquite, grasses/snakeweed, or grasses/sand sage. Decreases in black grama and bluestem species lead to an increase in bare patches and mesquite which further competes with grass species. An increase of dropseeds and threeawns occurs. Grass distribution becomes more patchy with an absence or severe decrease in black grama and bluestems. Mesquite provides nitrogen and soil organic matter to co-dominant grasses (Ansley and Jacoby 1998, Ansley et al. 1998). Mesquite mortality when exposed to fire is low due to aggressive resprouting abilities. Herbicide application combined with subsequent prescribed fire may be more effective in mesquite reduction (Britton and Wright 1971).

Diagnosis: This state is dominated by an increased abundance of communities including grass/mesquite, grass/snakeweed, or grass/sand sage. Dropseeds and threeawns have a patchy distribution.

Transition to Grass/Shrub State (1a): The historic plant community begins to shift toward the grass/shrub state as drivers such as drought, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by a decrease in black grama with a subsequent increase of dropseeds, threeawns, mesquite, and snakeweed. Snakeweed has been documented to outcompete black grama especially under conditions of fire suppression and drought (McDaniel et al. 1984).

Loss of black grama cover

Key indicators of approach to transition:

- Surface soil erosion
- Bare patch expansion
- · Increased dropseed/threeawn and mesquite, snakeweed, or sand sage abundances

Transition to Historic Plant Community (1b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community.

State 3 Shrub Dominated

Community 3.1 Shrub Dominated

Shrub-Dominated State: The shrub-dominated state results from a severe loss of grass cover. This state's primary species is sand sage. Shinnery oak and mesquite also occur; however, grass cover is limited to intershrub distribution. Sand sage stabilizes light sandy soils from wind erosion, which enhances protected grass/forb cover (Davis and Bonham 1979). However, shinnery oak also responds to the sandy soils with dense stands due to an aggressive rhizome system. Shinnery oak's extensive root system promotes competitive exclusion of grasses and forbs. Sand sage, shinnery oak, and mesquite can be controlled with herbicide (Herbel et al. 1979, Pettit 1986).

Transition to Shrub-Dominated (2a): Severe loss of grass species with increased erosion and fire suppression will result in a transition to a shrub-dominated state with sand sage, Shin oak, and honey mesquite directly from the grassland-dominated state.

Key indicators of approach to transition:

- · Severe loss of grass species cover
- Surface soil erosion
- Bare patch expansion
- Increased sand sage, shinnery oak, and mesquite abundance

Transition to Historic Plant Community (2b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community. In addition, seeding with native grass species will augment the transition to a grassland-dominated state.

Transition to Shrub-Dominated (3): If the grass/shrub site continues to lose grass cover with soil erosion, the site will transition to a shrub-dominated state with sand sage, shinnery oak, and honey mesquite.

Key indicators of approach to transition:

- · Continual loss of dropseeds/threeawns cover
- Surface soil erosion
- Bare patch expansion
- Increased sand sage, shinnery oak, and mesquite/dropseed/threeawn and mesquite/snakeweed abundance

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass	/Grasslike	•	•	•	
1	Warm Season			61–123	
	little bluestem	SCSC	Schizachyrium scoparium	61–123	_
2	Warm Season	•		37–61	
	sand bluestem	ANHA	Andropogon hallii	37–61	_
3	Warm Season	•		37–61	
	cane bluestem	BOBA3	Bothriochloa barbinodis	37–61	_
	silver bluestem	BOSA	Bothriochloa saccharoides	37–61	_
4	Warm Season	•		123–184	
	black grama	BOER4	Bouteloua eriopoda	123–184	_
	bush muhly	MUPO2	Muhlenbergia porteri	123–184	_
5	Warm Season	<u>.</u>	•	123–184	
	thin paspalum	PASE5	Paspalum setaceum	123–184	_
	l! b_!_#	05//10	Catanialaiaata	400 404	

	plains pristiegrass	SEVUZ	setaria vuipiseta	123-104	_
	fringed signalgrass	URCI	Urochloa ciliatissima	123–184	_
6	Warm Season	-		123–184	
	spike dropseed	SPCO4	Sporobolus contractus	123–184	_
	sand dropseed SPCR Sporobolus cryptandrus		123–184	_	
	mesa dropseed	SPFL2	Sporobolus flexuosus	123–184	_
7	Warm Season	•		61–123	
	hooded windmill grass	CHCU2	Chloris cucullata	61–123	_
	Arizona cottontop	DICA8	Digitaria californica	61–123	_
9	Other Perennial Grasses			37–61	
	Grass, perennial	2GP	Grass, perennial	37–61	_
Shru	ıb/Vine	•			
8	Warm Season			37–61	
	New Mexico feathergrass	HENE5	Hesperostipa neomexicana	37–61	
	giant dropseed	SPGI	Sporobolus giganteus	37–61	
10	Shrub	•		61–123	
	sand sagebrush ARFI2 Artemisia filifolia		Artemisia filifolia	61–123	
	Havard oak	QUHA3	Quercus havardii	61–123	
11	Shrub			34–61	,
	fourwing saltbush	ATCA2	Atriplex canescens	37–61	
	featherplume	DAFO	Dalea formosa	37–61	
12	Shrub	•		37–61	
	jointfir	EPHED	Ephedra	37–61	
	littleleaf ratany	KRER	Krameria erecta	37–61	
13	Other Shrubs	<u>.</u>		37–61	
	Shrub (>.5m)	2SHRUB	Shrub (>.5m)	37–61	
Forb		I.			
14	Forb			61–123	
	leatherweed	CRPOP	Croton pottsii var. pottsii	61–123	
	Indian blanket	GAPU	Gaillardia pulchella	61–123	
	globemallow	SPHAE	Sphaeralcea	61–123	
15	Forb			12–37	,
	woolly groundsel	PACA15	Packera cana	12–37	
16	Forb	1.		61–123	
	touristplant	DIWI2	Dimorphocarpa wislizeni	61–123	
	woolly plantain	PLPA2	Plantago patagonica	61–123	
17	Other Forbs	•	•	37–61	
	Forb (herbaceous, not grass nor grass-like)	2FORB	Forb (herbaceous, not grass nor grass-like)	37–61	_

Animal community

This Ecological Site provides habitat which supports a resident animal community that is characterized by pronghorn antelope, desert cottontail, spotted ground squirrel, black-tailed prairie dog, yellow faced pocket gopher, Ord's kangaroo rat, northern grasshopper mouse, southern plains woodrat, badger, roadrunner, meadowlark, burrowing owl, white necked raven, lesser prairie chicken, morning dove, scaled quail, Harris hawk, side blotched

lizard, marbled whiptail, Texas horned lizard, western diamondback rattlesnake, dusty hognose snake and ornate box turtle.

Where mesquite has invaded, most resident birds and scissor-tailed flycatcher, morning dove and Swainson's hawk, nest. Vesper and grasshopper sparrows utilize the site during migration.

Hydrological functions

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

Hydrologic Interpretations

Soil Series Hydrologic Group

Berino B

Kinco A

Maljamar B

Pajarito B

Palomas B

Wink B

Pyote A

Recreational uses

This site offers recreation potential for hiking, borseback riding, nature observation, photography and hunting. During years of abundant spring moisture, this site displays a colorful array of wildflowers during May and June.

Wood products

This site has no potential for wood products.

Other products

This site is suitable for grazing by all kinds and classes of livestock at any time of year. In cases where this site has been invaded by brush species it is especially suited for goats. Mismanagement of this site will cause a decrease in species such as the bluestems, blsck grama, bush muhly, plains bristlegrass, New Mexico feathergrass, Arizona cottontop and fourwing saltbush. A corresponding increase in the dropseeds, windmill grass, fall witchgrass, silver bluestem, sand sagebrush, shinery oak and ephedra will occur. This will also cause an increase in bare ground which will increase soil erodibility. This site will respond well to a system of management that rotates the season of use.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month Similarity Index Ac/AUM

100 - 762.3 - 3.5

75 - 513.0 - 4.5

50 - 264.6 - 9.0

25 - 0.9.1 +

Inventory data references

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

Other references

Literature Cited:

Ansley, R. J.; Jacoby, P. W. 1998. Manipulation of fire intensity to achieve mesquite management goals in north Texas. In: Pruden, Teresa L.; Brennan, Leonard A., eds. Fire in ecosystem management: shifting the paradigm from suppression to prescription: Proceedings, Tall Timbers fire ecology conference; 1996 May 7-10; Boise, ID. No. 20. Tallahassee, FL: Tall Timbers Research Station: 195-204.

Ansley, R. J.; Jones, D. L.; Tunnell, T. R.; [and others]. 1998. Honey mesquite canopy responses to single winter fires: relation to herbaceous fuel, weather and fire temperature. International Journal of Wildland Fire 8(4):241-252.

Britton, Carlton M.; Wright, Henry A. 1971. Correlation of weather and fuel variables to mesquite damage by fire. Journal of Range Management 24:136-141.

Davis, Joseph H., III and Bonham, Charles D. 1979. Interference of sand sagebrush canopy with needleandthread. Journal of Range Management 32(5):384-386.

Herbel, C. H, Steger, R, Gould, W. L. 1974. Managing semidesert ranges of the Southwest Circular 456. Las Cruces, NM: New Mexico State University, Cooperative Extension Service. 48 p.

McDaniel, Kirk C.; Pieper, Rex D.; Loomis, Lyn E.; Osman, Abdelgader A. 1984.

Taxonomy and ecology of perennial snakeweeds in New Mexico. Bulletin 711. Las Cruces, NM: New Mexico State University, Agricultural Experiment Station. 34 p.

McPherson, Guy R. 1995. The role of fire in the desert grasslands. In: McClaran, Mitchel P.; Van Devender, Thomas R., eds. The desert grassland. Tucson, AZ: The University of Arizona Press: 130-151.

Pettit, Russell D. 1986. Sand shinnery oak: control and management. Management Note 8. Lubbock, TX: Texas Tech University, College of Agricultural Sciences, Department of Range and Wildlife Management. 5 p.

Contributors

Don Sylvester Quinn Hodgson

Rangeland health reference sheet

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

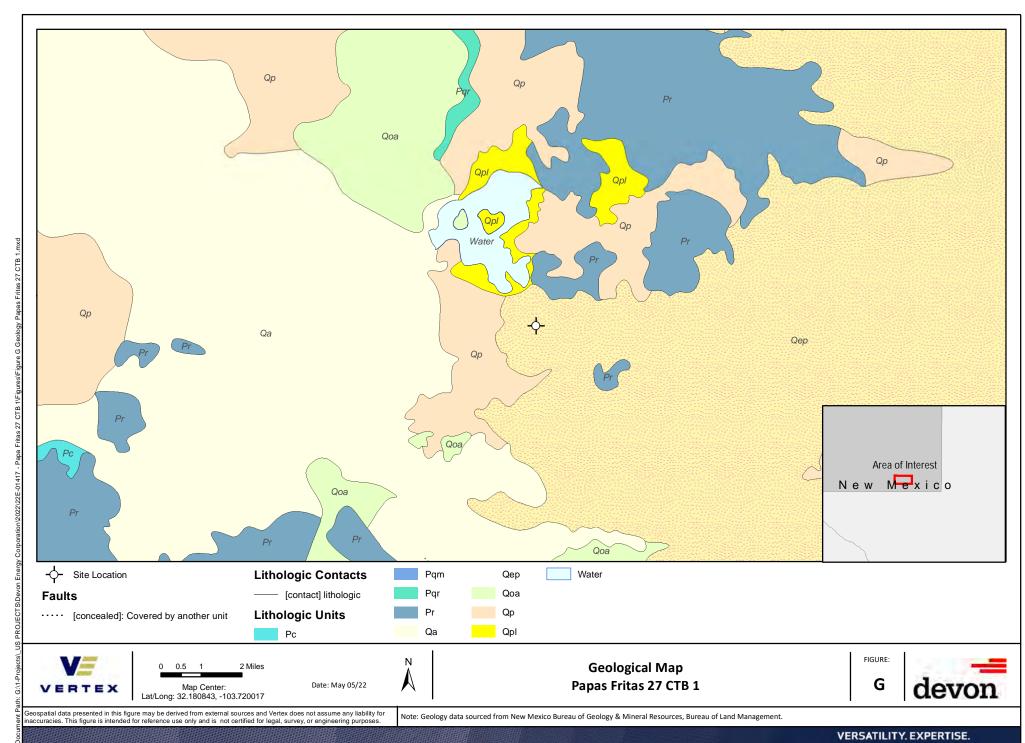
Author(s)/participant(s)	
Contact for lead author	
Date	
Approved by	
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

Indicators

1. Number and extent of rills:

2.	Presence of water flow patterns:
3.	Number and height of erosional pedestals or terracettes:
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):
5.	Number of gullies and erosion associated with gullies:
6.	Extent of wind scoured, blowouts and/or depositional areas:
7.	Amount of litter movement (describe size and distance expected to travel):
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):
10.	Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:
11.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):
12.	Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):
	Dominant:
	Sub-dominant:
	Other:
	Additional:
13.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):

14. Average percent litter cover (%) and depth (in):
15. Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production):
16. Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:
17. Perennial plant reproductive capability:



	riteria Worksheet		
Site Name	e: Papas Fritas 27 CTB 1	X: 32.271641	Y: -103.969901
-		X: 32.2/1641 Value	
ite Speci	fic Conditions	value	Unit
1	Depth to Groundwater	18	feet
2	Within 300 feet of any continuously flowing	3,555	feet
	watercourse or any other significant watercourse	0,000	
3	Within 200 feet of any lakebed, sinkhole or playa lake	2,002	feet
	(measured from the ordinary high-water mark)		
4	Within 300 feet from an occupied residence, school,	18,480	feet
	hospital, institution or church	ŕ	
	i) Within 500 feet of a spring or a private, domestic		feet
5	fresh water well used by less than five households for	5,318	
	domestic or stock watering purposes, or		
	ii) Within 1000 feet of any fresh water well or spring	5,318	feet
	Within incorporated municipal boundaries or within a		
6	defined municipal fresh water field covered under a		(Y/N)
	municipal ordinance adopted pursuant to Section 3-27-	No	
	3 NMSA 1978 as amended, unless the municipality		
	specifically approves		
7	Within 300 feet of a wetland	4,486	feet
8	Within the area overlying a subsurface mine		(Y/N)
			Critical
0	Within an unstable area (Karst Man)	Medium	High
9	Within an unstable area (Karst Map)	Medium	Medium
			Low
10	Within a 100-year Floodplain	500	voor
10	within a 100-year i looupialli	300	year
		loamy fine sand,	
11	Soil Type	gravelly fine sandy	
11		loam, silty clay loam	
		isam, sincy clay loam	
12	Ecological Classification	loamy sand	
	3 · · · · · · ·	, , , ,	
13	Geology	R042XC003NM	
	Geology	Loamy sand	
			<50'
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	51-100'
			>100'

ATTACHMENT 5

Papas Fritas 27 CTB 1 48 HR Notification Liner Inspection nAPP2210924425



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

to OCD,, BLM_NM

AII,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled a liner inspection to be conducted for the following release:

nAPP2210924425 DOR: 4/18/2022 Site Name: Papas Fritas 27 CTB 1

This work will be completed on behalf of Devon Energy Production Company

On Saturday, May 14, 2022 at approximately 12:00 p.m., Lakin Pullman will be on site to conduct a liner inspection. He can be reached at 701-495-1722. If you need directions to the please give me a call at 575-361-9880.

Thank you,

Monica Peppin

Project Manager

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

P 575.725.5001 Ext. 711 C 575.361.9880

www.vertex.ca

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Dhuqal Hanton <vertexresourcegroupusa@gmail.com>

48 hour confirmation sampling notice Papa Fritas 27 CTB 1

3 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Mon, Sep 26, 2022 at 12:16 PM

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

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted at Papa Fritas 27 CTB 1,

Lea County

NAPP2113158013 & NAPP2127146416.

On Thursday, September 29, 2022, at approximately 8:00 a.m through Friday September 30, Fernando Rodriguez of Vertex will be onsite to conduct confirmation sampling for the above release.

He can be reached at 575-361-4509. If you need directions to the site, please do not hesitate to contact me. If you have any questions or concerns regarding this notification, please give me a call at 346-814-1413.

Thank you,

Kent Stallings P.G.

Project Manager

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

P 575,725,5001 C 346.814.1413

Nobui, Jennifer, EMNRD < Jennifer. Nobui@emnrd.nm.gov>

Mon, Sep 26, 2022 at 1:40 PM

To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet, Robert, EMNRD"

<Robert.Hamlet@emnrd.nm.gov>, "Harimon, Jocelyn, EMNRD" <Jocelyn.Harimon@emnrd.nm.gov>

Kent

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

Thanks,

Jennifer Nobui

From: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Sent: Monday, September 26, 2022 1:37 PM

To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD

<Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert,

EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Subject: Fw: [EXTERNAL] 48 hour confirmation sampling notice Papa Fritas 27 CTB 1

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Monday, September 26, 2022 12:16 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; spills@slo.state.nm.us <spills@slo.state.nm.us <

Subject: [EXTERNAL] 48 hour confirmation sampling notice Papa Fritas 27 CTB 1

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

[Quoted text hidden]

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Fri, Sep 30, 2022 at 11:49 AM

To: "Nobui, Jennifer, EMNRD" < Jennifer.Nobui@emnrd.nm.gov>

Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet, Robert, EMNRD"

<Robert.Hamlet@emnrd.nm.gov>, "Harimon, Jocelyn, EMNRD" <Jocelyn.Harimon@emnrd.nm.gov>

Jennifer,

Thank you. I would like to extend the notification to include next week. On Monday, October 3, 2022, at approximately 8:00 a.m through Friday October 7. Fernando Rodriguez of Vertex will be onsite to conduct confirmation sampling at Papa Fritas 27 CTB 1,

Lea County, NAPP2113158013 & NAPP2127146416.

Thanks,

Kent

[Quoted text hidden]



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Confirmation sampling 48 hour notice

4 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Tue, Oct 25, 2022 at 8:33 AM

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

Jennifer,

I would like to provide notification to include On Thursday, October 27, 2022, at approximately 8:00 a.m through Friday October 8, Chance Dixon of Vertex will be onsite to conduct confirmation sampling at Papa Fritas 27 CTB 1, Lea County, NAPP2113158013 & NAPP2127146416.

Thank you,

Kent

Tue, Oct 25, 2022 at 9:57 AM

Hi Kent

Your dates below are off, did you mean through Friday November 4? Also, please note that the responsible party must provide at least two business days' notice to the OCD as opposed to 48-hour notification.

Thanks,

Jennifer Nobui

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Tuesday, October 25, 2022 8:33 AM

To: Nobui, Jennifer, EMNRD < Jennifer. Nobui@emnrd.nm.gov>; Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Subject: [EXTERNAL] Confirmation sampling 48 hour notice

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

[Quoted text hidden]

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

Tue, Oct 25, 2022 at 1:33 PM

io. Nobul, Jenniler, EMINAD Sentiller.Nobul@emind.min.g

Jennifer,

I apologise. I intended to extend the sampling from Wednesday10/26/2022, into Thursday 10/27/2022 and Friday10/28/2022.

Thank you,

Kent

[Quoted text hidden]

Nobui, Jennifer, EMNRD Jennifer.Nobui@emnrd.nm.gov> To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Tue, Oct 25, 2022 at 1:37 PM

Kent,

No worries. Dates have been noted. Going forward, please keep in mind that notification is not 48 hours but 2 business days. 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.

[Quoted text hidden]

ATTACHMENT 6



Client:	Devon Energy Corporation	Inspection Date:	5/14/2022			
Site Location Name:	Papa Fritas 27 CTB 1	Report Run Date:	5/14/2022 10:56 PM			
Client Contact Name:	Wes Matthews	API #:				
Client Contact Phone #:	(575) 748-0176	_				
Unique Project ID		Project Owner:				
Project Reference #		Project Manager:				
Summary of Times						
Arrived at Site	5/14/2022 9:08 AM					
Departed Site	5/14/2022 10:15 AM					

Field Notes

- **9:11** Completed safety paperwork at office. On site to perform Liner Inspection.
- **10:03** Inspected outside and inside walls of containment and found no damage or breaches.
- 10:05 Inspected areas around outside containment and found no unexpected staining.
- 10:06 Inspected liner inside containment around and between tanks and equipment. Did not find damage to liner or any areas of concern.

Next Steps & Recommendations

1 Submit report to client.



Site Photos





Southwest corner outside containment facing east. South end of containment, outside.

Viewing Direction: East



Southwest corner inside containment facing east. South end of containment, inside.

Viewing Direction: South



Northwest corner inside containment facing south. West side of containment, inside.

Viewing Direction: North



Southeast corner inside containment facing north. East side of containment, inside.





Northeast corner inside containment facing west. North end of containment, inside.



North end of tanks facing south.



South end of tanks facing north.



West of tanks facing east. Between tanks, south.







East of tanks facing west. Between tanks, middle.



East of tanks facing west. Between tanks, north.

Viewing Direction: South



Northeast corner inside containment facing south. East side of containment, inside.

Viewing Direction: North



Southwest corner outside containment facing north. West side of containment, outside.





Southeast corner inside containment facing east. South end of containment, inside.



Northwest corner outside containment facing south. West side of containment, outside.



Northwest corner outside containment facing east. North end of containment, outside.



Northeast corner outside containment facing west. North end of containment, outside.







Northeast corner outside containment facing south. East side of containment, outside.

Viewing Direction: North

William Committee Co

Southeast corner outside containment facing north. East side of containment, outside.





Southeast corner outside containment facing west. South side of containment, outside.

Viewing Direction: East



Northwest corner inside containment facing east. North end of containment, inside.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:



Client:	Devon Energy Corporation	Inspection Date:	5/14/2022
Site Location Name:	Papa Fritas 27 CTB 1	Report Run Date:	5/14/2022 10:55 PM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176	_	
Unique Project ID		– Project Owner:	
Project Reference #		– Project Manager:	
		Summary of	Times
Arrived at Site	5/14/2022 6:49 AM		
Departed Site	5/14/2022 9:08 AM		

Field Notes

- 9:09 Completed safety paperwork at office. Investigated partial work done on historic spill by competitor. Phase 2 of project.
- **8:15** Staining no longer visible in most places to identify release area. Previous consultant white-flagged edges of release. Used visible staining and white flags to map approximate release area in Arc Collector.
- 9:03 Added white flags to edges of release area off pad. Painted and added additional white flags to edges of release area on pad.
- **8:20** North edge of release is bounded by berm covering water line.

Next Steps & Recommendations

1 Place one calls and arrange excavation.



Site Photos

Viewing Direction: Northeast



North edge of pad facing northwest. Added flags to edges of release area off-pad.

Viewing Direction: East



West end of release area facing east. Outlined approximate release area on pad with additional white flags and paint.







South end of release area facing northwest.
Outlined approximate release area on pad with additional white flags and paint.

Viewing Direction: South



Northeast corner of release facing south.

Added flags to edges of release area off-pad.

Viewing Direction: North



South end of release area facing north.

Outlined approximate release area on pad with additional white flags and paint.

Viewing Direction: West



Northeast corner of release facing west. Added flags to edges of release area off-pad.

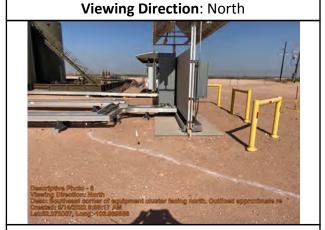




Northwest corner of release facing east. Added flags to edges of release area off-pad.



North of pad facing east. Added flags to edges of release area off-pad.



Northeast corner of equipment cluster facing east. Outlined approximate release area on pad with additional white flags and paint.



Northeast corner of equipment cluster facing north. Outlined approximate release area on pad with additional white flags and paint.







North edge of pad facing west. Outlined approximate release area on pad with additional white flags and paint.

Viewing Direction: Southwest



North edge of pad facing southwest. Outlined approximate release area on pad with additional white flags and paint.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:



Client:	Devon Energy Corporation	Inspection Date:	10/27/2022
Site Location Name:	Papa Fritas 27 CTB 1	Report Run Date:	10/27/2022 7:52 PM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176	_	
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of ⁻	Times
Arrived at Site	10/27/2022 8:45 AM		
Departed Site	10/27/2022 12:00 PM		

Field Notes

- 9:26 Arrived on site to excavate and collect samples that were above criteria on chlorides from lab
- 10:39 Samples WES22-10, BES22-27, and BES22-30 through BES22-31 are clean on field screening and will be sent to lab for analysis.
- **10:40** BES22-07 and BES22-11 were collected at 2.5' in the pasture as they were not collected last week. Scanned all data and made sure that we have data under criteria for each sample point.

Next Steps & Recommendations

1 Send final samples to lab for analysis to complete forrimation



Site Photos



Sample area for WES22-10



Final excavation pad



Final excavation pad



Final excavation pad





Final excavation pad



Final excavation pad



Sample area for BES22-27 and BES22-30 through BES22-31



Sample area for BES22-11





Sample area for BES22-07



Final excavation pasture



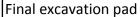
Final excavation pasture



Final excavation pasture









Final excavation pad



Daily Site Visit Signature

Inspector: Chance Dixon

Signature:

Run on 10/27/2022 7:52 PM UTC

ATTACHMENT 7



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

October 19, 2022

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

FAX

RE: Papas Fritas 27 CTB1 OrderNo.: 2210378

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 18 sample(s) on 10/7/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-01 2'

Project: Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 9:45:00 AM

 Lab ID: 2210378-001
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/12/2022 10:29:08 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/12/2022 10:29:08 AM
Surr: DNOP	57.6	21-129	%Rec	1	10/12/2022 10:29:08 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/11/2022 9:58:00 PM
Surr: BFB	93.2	37.7-212	%Rec	1	10/11/2022 9:58:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	10/11/2022 9:58:00 PM
Toluene	ND	0.046	mg/Kg	1	10/11/2022 9:58:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/11/2022 9:58:00 PM
Xylenes, Total	ND	0.092	mg/Kg	1	10/11/2022 9:58:00 PM
Surr: 4-Bromofluorobenzene	91.1	70-130	%Rec	1	10/11/2022 9:58:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/12/2022 4:31:27 PM

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

Qualifiers:

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

Page 1 of 25

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Chloride

Analytical Report Lab Order 2210378

Client Sample ID: BES22-03 2'

%Rec

ma/Ka

1

20

Date Reported: 10/19/2022

10/11/2022 10:18:00 PM

10/12/2022 5:08:29 PM

Analyst: NAI

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 10:00:00 AM

 Lab ID:
 2210378-002
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 13 mg/Kg 1 10/12/2022 8:34:42 PM Motor Oil Range Organics (MRO) ND 44 mg/Kg 1 10/12/2022 8:34:42 PM Surr: DNOP 97.5 21-129 %Rec 1 10/12/2022 8:34:42 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: BRM Gasoline Range Organics (GRO) ND 10/11/2022 10:18:00 PM 4.7 mg/Kg 1 Surr: BFB 95.2 37.7-212 %Rec 1 10/11/2022 10:18:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: BRM Benzene ND 0.023 mg/Kg 10/11/2022 10:18:00 PM 1 Toluene ND 0.047 mg/Kg 1 10/11/2022 10:18:00 PM Ethylbenzene ND 0.047 mg/Kg 1 10/11/2022 10:18:00 PM Xylenes, Total ND 0.093 mg/Kg 1 10/11/2022 10:18:00 PM

96.9

ND

70-130

60

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

Qualifiers:

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

Page 2 of 25

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Lab ID: 2210378-003

Client Sample ID: BES22-16 2'

Collection Date: 10/5/2022 10:35:00 AM **Received Date:** 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 8:55:52 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/12/2022 8:55:52 PM
Surr: DNOP	99.2	21-129	%Rec	1	10/12/2022 8:55:52 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/11/2022 10:37:00 PM
Surr: BFB	97.2	37.7-212	%Rec	1	10/11/2022 10:37:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	10/11/2022 10:37:00 PM
Toluene	ND	0.047	mg/Kg	1	10/11/2022 10:37:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/11/2022 10:37:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/11/2022 10:37:00 PM
Surr: 4-Bromofluorobenzene	97.1	70-130	%Rec	1	10/11/2022 10:37:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	170	60	mg/Kg	20	10/12/2022 5:45:31 PM

Matrix: SOIL

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-18 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 11:30:00 AM

 Lab ID:
 2210378-004
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 9:06:33 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/12/2022 9:06:33 PM
Surr: DNOP	109	21-129	%Rec	1	10/12/2022 9:06:33 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/11/2022 10:57:00 PM
Surr: BFB	97.4	37.7-212	%Rec	1	10/11/2022 10:57:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	10/11/2022 10:57:00 PM
Toluene	ND	0.049	mg/Kg	1	10/11/2022 10:57:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/11/2022 10:57:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/11/2022 10:57:00 PM
Surr: 4-Bromofluorobenzene	97.8	70-130	%Rec	1	10/11/2022 10:57:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/12/2022 5:57:51 PM

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

Qualifiers:

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

Page 4 of 25

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-20 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 11:45:00 AM

 Lab ID:
 2210378-005
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 9:17:09 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/12/2022 9:17:09 PM
Surr: DNOP	80.9	21-129	%Rec	1	10/12/2022 9:17:09 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/11/2022 11:17:00 PM
Surr: BFB	90.9	37.7-212	%Rec	1	10/11/2022 11:17:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	10/11/2022 11:17:00 PM
Toluene	ND	0.047	mg/Kg	1	10/11/2022 11:17:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/11/2022 11:17:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/11/2022 11:17:00 PM
Surr: 4-Bromofluorobenzene	94.0	70-130	%Rec	1	10/11/2022 11:17:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/12/2022 6:34:53 PM

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

Qualifiers:

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

Page 5 of 25

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-21 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 12:00:00 PM

 Lab ID:
 2210378-006
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 9:27:43 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/12/2022 9:27:43 PM
Surr: DNOP	85.3	21-129	%Rec	1	10/12/2022 9:27:43 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/11/2022 11:36:00 PM
Surr: BFB	94.6	37.7-212	%Rec	1	10/11/2022 11:36:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	10/11/2022 11:36:00 PM
Toluene	ND	0.046	mg/Kg	1	10/11/2022 11:36:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/11/2022 11:36:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/11/2022 11:36:00 PM
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	10/11/2022 11:36:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	160	60	mg/Kg	20	10/12/2022 6:47:14 PM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-22 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 12:10:00 PM

 Lab ID:
 2210378-007
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 9:38:17 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/12/2022 9:38:17 PM
Surr: DNOP	65.6	21-129	%Rec	1	10/12/2022 9:38:17 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/12/2022 12:16:00 AM
Surr: BFB	95.3	37.7-212	%Rec	1	10/12/2022 12:16:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	10/12/2022 12:16:00 AM
Toluene	ND	0.048	mg/Kg	1	10/12/2022 12:16:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/12/2022 12:16:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	10/12/2022 12:16:00 AM
Surr: 4-Bromofluorobenzene	94.1	70-130	%Rec	1	10/12/2022 12:16:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	250	60	mg/Kg	20	10/12/2022 6:59:35 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-23 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 12:20:00 PM

 Lab ID:
 2210378-008
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/12/2022 9:48:47 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/12/2022 9:48:47 PM
Surr: DNOP	79.1	21-129	%Rec	1	10/12/2022 9:48:47 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/12/2022 12:35:00 AM
Surr: BFB	94.8	37.7-212	%Rec	1	10/12/2022 12:35:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	10/12/2022 12:35:00 AM
Toluene	ND	0.047	mg/Kg	1	10/12/2022 12:35:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/12/2022 12:35:00 AM
Xylenes, Total	ND	0.093	mg/Kg	1	10/12/2022 12:35:00 AM
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	10/12/2022 12:35:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	1400	61	mg/Kg	20	10/12/2022 7:11:56 PM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-24 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 12:30:00 PM

 Lab ID:
 2210378-009
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/12/2022 9:59:16 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/12/2022 9:59:16 PM
Surr: DNOP	75.6	21-129	%Rec	1	10/12/2022 9:59:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/12/2022 12:55:00 AM
Surr: BFB	95.5	37.7-212	%Rec	1	10/12/2022 12:55:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	10/12/2022 12:55:00 AM
Toluene	ND	0.049	mg/Kg	1	10/12/2022 12:55:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/12/2022 12:55:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	10/12/2022 12:55:00 AM
Surr: 4-Bromofluorobenzene	94.1	70-130	%Rec	1	10/12/2022 12:55:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/12/2022 7:24:17 PM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-32 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 12:35:00 PM

 Lab ID:
 2210378-010
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/12/2022 10:09:49 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	10/12/2022 10:09:49 PM
Surr: DNOP	64.9	21-129	%Rec	1	10/12/2022 10:09:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/12/2022 1:15:00 AM
Surr: BFB	90.6	37.7-212	%Rec	1	10/12/2022 1:15:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	10/12/2022 1:15:00 AM
Toluene	ND	0.048	mg/Kg	1	10/12/2022 1:15:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/12/2022 1:15:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	10/12/2022 1:15:00 AM
Surr: 4-Bromofluorobenzene	92.4	70-130	%Rec	1	10/12/2022 1:15:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	210	61	mg/Kg	20	10/12/2022 7:36:37 PM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-33 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 12:40:00 PM

 Lab ID:
 2210378-011
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 10:20:23 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/12/2022 10:20:23 PM
Surr: DNOP	68.4	21-129	%Rec	1	10/12/2022 10:20:23 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/12/2022 1:34:00 AM
Surr: BFB	90.9	37.7-212	%Rec	1	10/12/2022 1:34:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	10/12/2022 1:34:00 AM
Toluene	ND	0.048	mg/Kg	1	10/12/2022 1:34:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/12/2022 1:34:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	10/12/2022 1:34:00 AM
Surr: 4-Bromofluorobenzene	93.2	70-130	%Rec	1	10/12/2022 1:34:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	190	60	mg/Kg	20	10/12/2022 7:48:58 PM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-34 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 12:45:00 PM

 Lab ID:
 2210378-012
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/12/2022 10:30:59 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	10/12/2022 10:30:59 PM
Surr: DNOP	89.9	21-129	%Rec	1	10/12/2022 10:30:59 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/12/2022 1:54:00 AM
Surr: BFB	93.4	37.7-212	%Rec	1	10/12/2022 1:54:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	10/12/2022 1:54:00 AM
Toluene	ND	0.047	mg/Kg	1	10/12/2022 1:54:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/12/2022 1:54:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	10/12/2022 1:54:00 AM
Surr: 4-Bromofluorobenzene	94.9	70-130	%Rec	1	10/12/2022 1:54:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	420	60	mg/Kg	20	10/12/2022 8:01:19 PM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-39 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 12:55:00 PM

 Lab ID:
 2210378-013
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/12/2022 10:41:36 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/12/2022 10:41:36 PM
Surr: DNOP	66.2	21-129	%Rec	1	10/12/2022 10:41:36 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/12/2022 2:14:00 AM
Surr: BFB	91.0	37.7-212	%Rec	1	10/12/2022 2:14:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	10/12/2022 2:14:00 AM
Toluene	ND	0.048	mg/Kg	1	10/12/2022 2:14:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/12/2022 2:14:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	10/12/2022 2:14:00 AM
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	10/12/2022 2:14:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/12/2022 8:13:40 PM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-40 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 1:00:00 PM

 Lab ID:
 2210378-014
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG				Analyst: DGH	
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 10:52:14 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/12/2022 10:52:14 PM
Surr: DNOP	86.3	21-129	%Rec	1	10/12/2022 10:52:14 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/12/2022 2:34:00 AM
Surr: BFB	92.2	37.7-212	%Rec	1	10/12/2022 2:34:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	10/12/2022 2:34:00 AM
Toluene	ND	0.047	mg/Kg	1	10/12/2022 2:34:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/12/2022 2:34:00 AM
Xylenes, Total	ND	0.093	mg/Kg	1	10/12/2022 2:34:00 AM
Surr: 4-Bromofluorobenzene	97.8	70-130	%Rec	1	10/12/2022 2:34:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/13/2022 12:45:07 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Client Sample ID: BES22-43 2'

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1 Collection Date: 10/5/2022 1:15:00 PM

Lab ID: 2210378-015 **Matrix:** SOIL **Received Date:** 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR				Analyst: DGH	
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/12/2022 11:02:54 PM
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	10/12/2022 11:02:54 PM
Surr: DNOP	76.7	21-129	%Rec	1	10/12/2022 11:02:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/12/2022 2:53:00 AM
Surr: BFB	90.7	37.7-212	%Rec	1	10/12/2022 2:53:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	10/12/2022 2:53:00 AM
Toluene	ND	0.050	mg/Kg	1	10/12/2022 2:53:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	10/12/2022 2:53:00 AM
Xylenes, Total	ND	0.10	mg/Kg	1	10/12/2022 2:53:00 AM
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	10/12/2022 2:53:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	580	60	mg/Kg	20	10/13/2022 1:22:10 PM

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

Qualifiers:

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

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Client Sample ID: BES22-45 2'

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1 Collection Date: 10/5/2022 1:30:00 PM

Lab ID: 2210378-016 **Matrix:** SOIL **Received Date:** 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/12/2022 11:13:34 PM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	10/12/2022 11:13:34 PM
Surr: DNOP	90.5	21-129	%Rec	1	10/12/2022 11:13:34 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/12/2022 3:13:00 AM
Surr: BFB	91.5	37.7-212	%Rec	1	10/12/2022 3:13:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	10/12/2022 3:13:00 AM
Toluene	ND	0.046	mg/Kg	1	10/12/2022 3:13:00 AM
Ethylbenzene	ND	0.046	mg/Kg	1	10/12/2022 3:13:00 AM
Xylenes, Total	ND	0.092	mg/Kg	1	10/12/2022 3:13:00 AM
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	10/12/2022 3:13:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	250	60	mg/Kg	20	10/13/2022 1:59:12 PM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-46 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 1:35:00 PM

 Lab ID:
 2210378-017
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 11:24:16 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/12/2022 11:24:16 PM
Surr: DNOP	83.8	21-129	%Rec	1	10/12/2022 11:24:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/11/2022 1:15:58 PM
Surr: BFB	86.2	37.7-212	%Rec	1	10/11/2022 1:15:58 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/11/2022 1:15:58 PM
Toluene	ND	0.049	mg/Kg	1	10/11/2022 1:15:58 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/11/2022 1:15:58 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/11/2022 1:15:58 PM
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	1	10/11/2022 1:15:58 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	120	60	mg/Kg	20	10/13/2022 2:11:33 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-47 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/5/2022 1:40:00 PM

 Lab ID:
 2210378-018
 Matrix: SOIL
 Received Date: 10/7/2022 7:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/13/2022 12:07:12 AM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	10/13/2022 12:07:12 AM
Surr: DNOP	94.2	21-129	%Rec	1	10/13/2022 12:07:12 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/11/2022 2:26:23 PM
Surr: BFB	87.3	37.7-212	%Rec	1	10/11/2022 2:26:23 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/11/2022 2:26:23 PM
Toluene	ND	0.049	mg/Kg	1	10/11/2022 2:26:23 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/11/2022 2:26:23 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/11/2022 2:26:23 PM
Surr: 4-Bromofluorobenzene	93.3	70-130	%Rec	1	10/11/2022 2:26:23 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	240	60	mg/Kg	20	10/13/2022 2:23:53 PM

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

Qualifiers:

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

2210378 19-Oct-22

WO#:

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: MB-70775 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70775 RunNo: 91738

Prep Date: 10/12/2022 Analysis Date: 10/12/2022 SeqNo: 3290313 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-70775 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70775 RunNo: 91738

Prep Date: 10/12/2022 Analysis Date: 10/12/2022 SeqNo: 3290314 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 94.0 90 110

Sample ID: MB-70774 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70774 RunNo: 91773

Prep Date: 10/12/2022 Analysis Date: 10/13/2022 SeqNo: 3291389 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-70774 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70774 RunNo: 91773

Prep Date: 10/12/2022 Analysis Date: 10/13/2022 SeqNo: 3291390 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.7 90 110

Qualifiers:

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

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2210378 19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: LCS-70721 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 70721 RunNo: 91700

Prep Date: 10/11/2022 Analysis Date: 10/11/2022 SeqNo: 3286198 Units: %Rec

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

Surr: DNOP 3.3 5.000 66.3 21 129

Sample ID: MB-70721 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 70721 RunNo: 91700

Prep Date: 10/11/2022 Analysis Date: 10/11/2022 SeqNo: 3286199 Units: %Rec

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

Surr: DNOP 8.3 10.00 82.6 129

Sample ID: LCS-70715 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 70715 Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3288663 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Qual

Diesel Range Organics (DRO) 32 15 50.00 0 64.5 64.4 Surr: DNOP 5.000 68.3 21 129 3.4

Sample ID: LCS-70717 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 70717 RunNo: 91700

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3288664 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 35 15 50.00 69.6 64.4 127

Surr: DNOP 3.9 5.000 77.8 129

Sample ID: MB-70715 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 70715 RunNo: 91700

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3288668 Units: mg/Kg

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

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 10.00 90.7 129 21

SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 70717 RunNo: 91700

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3288669 Units: mg/Kg

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

Diesel Range Organics (DRO) ND 15

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Sample ID: MB-70717

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

POL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Estimated value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 20 of 25

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2210378

19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: MB-70717 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Batch ID: 70717 Client ID: PBS RunNo: 91700

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3288669 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual 50

Motor Oil Range Organics (MRO) ND Surr: DNOP 9.9 10.00 98.8

21 129

Sample ID: 2210378-017AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BES22-46 2' Batch ID: 70717 RunNo: 91700

Prep Date: 10/10/2022 Analysis Date: 10/12/2022 SeqNo: 3291181 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 32 13 42.70 O 75.1 36.1 154

Surr: DNOP 80.5 3.4 4.270 21 129

Sample ID: 2210378-017AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BES22-46 2' Batch ID: 70717 RunNo: 91700

Prep Date: 10/10/2022 Analysis Date: 10/12/2022 SeqNo: 3291182 Units: mg/Kg

%RPD **RPDLimit** Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit Qual Analyte Diesel Range Organics (DRO) 36 14 48.31 0 73.6 36.1 154 10.4 33.9 Surr: DNOP 3.9 4.831 81.3 21 0 0 129

Qualifiers:

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

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2210378

19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: mb-70714 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70714 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286403 Units: %Rec

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

Surr: BFB 860 1000 86.4 37.7 212

Sample ID: Ics-70714 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70714 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286404 Units: %Rec

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

Surr: BFB 1700 1000 173 37.7 212

Sample ID: mb-70712 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70712 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286419 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 870 1000 87.2 37.7 212

Sample ID: Ics-70712 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70712 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286420 Units: mg/Kg

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

Gasoline Range Organics (GRO) 23 5.0 25.00 92.5 72.3 137 Surr: BFB 1800 1000 178 37.7 212

Sample ID: 2210378-017ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: BES22-46 2' Batch ID: 70712 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286422 Units: mg/Kg

PQL SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result SPK value LowLimit Qual 4.9 n 97.5 70 24 130

Gasoline Range Organics (GRO) 24.41 Surr: BFB 1800 976.6 185 37.7 212

Sample ID: 2210378-017amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BES22-46 2' Batch ID: 70712 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286423 Units: mg/Kg

LowLimit Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 20 29 4.9 24.32 0 118 70 130 18.7

Surr: BFB 2100 972.8 37.7 212 0 0 212

Qualifiers:

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210378**

19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: Ics-70709 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70709 RunNo: 91709

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286520 Units: mg/Kg

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

 Gasoline Range Organics (GRO)
 22
 5.0
 25.00
 0
 88.4
 72.3
 137

 Surr: BFB
 1900
 1000
 194
 37.7
 212

Sample ID: mb-70709 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70709 RunNo: 91709

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286521 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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2210378 19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: mb-70714 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 70714 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286448 Units: %Rec

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

Surr: 4-Bromofluorobenzene 0.92 1.000 92.1 70 130

Sample ID: LCS-70714 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 70714 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286449 Units: %Rec

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

Surr: 4-Bromofluorobenzene 0.94 1.000 93.9 130

Sample ID: mb-70712 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 70712 RunNo: 91687 Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286464 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result

ND 0.025 Benzene ND 0.050 Toluene Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.93 1.000 93.0 70

Sample ID: LCS-70712 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 70712 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286465 Units: mg/Kg LowLimit Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte Benzene 1.0 0.025 1.000 0 104 80 120 0.050 1.000 0 105 80 120 Toluene 1.0 0.050 0 104 80 Ethylbenzene 1.0 1.000 120 Xylenes, Total 0 104 80 3.1 0.10 3.000 120 Surr: 4-Bromofluorobenzene 0.95 1.000 95.1 70 130

130

Sample ID: 2210378-018ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: BES22-47 2' Batch ID: 70712 RunNo: 91687

Prep Date: 10/10/2022	Analysis D	Date: 10	/11/2022	s	SeqNo: 3	286468	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.024	0.9756	0	99.8	68.8	120			
Toluene	0.99	0.049	0.9756	0.01252	99.8	73.6	124			
Ethylbenzene	1.0	0.049	0.9756	0	103	72.7	129			
Xylenes, Total	3.0	0.098	2.927	0.01840	101	75.7	126			

Qualifiers:

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

2.9

0.92

0.93

0.097

WO#: **2210378**

19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: 2210378-018ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: BES22-47 2' Batch ID: 70712 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286468 Units: mg/Kg

2.921

0.9737

1.000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: 4-Bromofluorobenzene 0.91 0.9756 93.6 70 130

Sample ID: 2210378-018amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: BES22-47 2' Batch ID: 70712 RunNo: 91687 Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286469 Units: mg/Kg **RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual Benzene 0.94 0.024 0.9737 0 96.4 68.8 120 3.70 20 Toluene 0.95 0.049 0.9737 0.01252 96.0 73.6 124 4.02 20 0.95 0.049 5.33 20 Ethylbenzene 0.9737 0 97.4 72.7 129

0.01840

97.0

94 4

93.2

75.7

70

70

4.20

0

126

130

130

20

0

Sample ID: Ics-70709 TestCode: EPA Method 8021B: Volatiles SampType: LCS Client ID: LCSS Batch ID: 70709 RunNo: 91709 Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286568 Units: mg/Kg SPK value SPK Ref Val **RPDLimit** Result PQL %REC LowLimit HighLimit %RPD Qual Analyte 0.025 1.000 0 106 80 120 Renzene 1 1 Toluene 1.1 0.050 1.000 0 105 80 120 0.050 0 105 80 120 Ethylbenzene 1.0 1.000 Xylenes, Total 3.1 0.10 3.000 0 102 80 120

Sample ID: mb-70709 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: Batch ID: 70709 RunNo: 91709 Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286569 Units: mg/Kg POI SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual Benzene ND 0.025 ND Toluene 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.95 1.000 95.2 70 130

Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

Surr: 4-Bromofluorobenzene

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: Vertex Resources Work Order Number: 2210378 RcptNo: 1 Services, Inc. Hansay Received By: Juan Rojas 10/7/2022 7:10:00 AM Completed By: Tracy Casarrubias 10/7/2022 7:50:29 AM 7110/7/2Z Reviewed By: Chain of Custody No 🗌 1. Is Chain of Custody complete? Yes V Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? No 🗌 NA 🗌 Yes V No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes V NA 🗌 No 🗌 Sample(s) in proper container(s)? Yes 🗸 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 No 🗌 7. Are samples (except VOA and ONG) properly preserved? ~ No V NA 🗌 8. Was preservative added to bottles? Yes NA V Yes 🗌 No 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No V 10. Were any sample containers received broken? # of preserved bottles checked 11. Does paperwork match bottle labels? Yes V No 🗌 for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes V No 🗌 No 🗌 13. Is it clear what analyses were requested? Yes V Checked by: KPG 10 -7-22 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 1.9 Good Yes

Page 149 of 379 Received by OCD: 12/2/2022 2:02:23 P. **ANALYSIS LABORATORY** HALL ENVIRONMENTAL いなり If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 Direct bill to Devan, Dale Wardall www.hallenvironmental.com **Analysis Request** Total Coliform (Present/Absent) (AOV-ima2) 07S8 (AOV) 09S8 WO # 20976741 NO2, PO4, SO4 Br, NO3, Tel. 505-345-3975 RCRA 8 Metals PAHs by 8310 or 8270SIMS EDB (Method 504.1) 8081 Pesticides/8082 PCB's Remarks: TPH:8015D(GRO / DRO / MRO) NETEN/ (1208) s'BMT \ 38TM 10000 10 12/22 7 !A (S) 900 Time HEAL No. 2210372 1.9-0=19 27/0/01 Papas Fritas 27 CTB Sampler: Zach Englacit 013 710 Si 010 410 520 Rush A Kent Stallings Preservative Cooler Temp(including CF): 22 E - 01417 3 MAMMAN Type Turn-Around Time: Via: Project Manager: Project Name: Standard Standard # of Coolers: Type and # 1-14r iar Received by: 1- 1 ar Container 1 ar 1-1 ar Project #: Received by: On Ice: ☐ Level 4 (Full Validation) BES22-38392 BES22-8 40 2 Chain-of-Custody Record BES22- 43 BES22- 45 94 1 Sample Name Munn BES22-BES22-Chain-of-Custody □ Az Compliance Jack Eng Relinquished by: Relinquished by: □ Other Matrix 10-5-11:55 |50:1 Sungaming Address: 13:00 1830 13:30 13:40 ROS QA/QC Package: 13:35 13:15 ☐ EDD (Type) Time email or Fax#: Accreditation: Standard
 Standard □ NELAC Phone #: Date 10-5



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

October 19, 2022

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

FAX

RE: Papas Fritas OrderNo.: 2210428

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 13 sample(s) on 10/8/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-61 2'

 Project:
 Papas Fritas
 Collection Date: 10/6/2022 9:40:00 AM

 Lab ID:
 2210428-001
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 4:32:32 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/12/2022 4:32:32 AM
Surr: DNOP	81.9	21-129	%Rec	1	10/12/2022 4:32:32 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/12/2022 4:17:38 PM
Surr: BFB	86.9	37.7-212	%Rec	1	10/12/2022 4:17:38 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/12/2022 4:17:38 PM
Toluene	ND	0.049	mg/Kg	1	10/12/2022 4:17:38 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/12/2022 4:17:38 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/12/2022 4:17:38 PM
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	10/12/2022 4:17:38 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	670	60	mg/Kg	20	10/14/2022 1:19:01 AM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-62 2'

 Project:
 Papas Fritas
 Collection Date: 10/6/2022 9:50:00 AM

 Lab ID:
 2210428-002
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 4:43:04 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/12/2022 4:43:04 AM
Surr: DNOP	87.2	21-129	%Rec	1	10/12/2022 4:43:04 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/12/2022 4:41:01 PM
Surr: BFB	87.4	37.7-212	%Rec	1	10/12/2022 4:41:01 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/12/2022 4:41:01 PM
Toluene	ND	0.049	mg/Kg	1	10/12/2022 4:41:01 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/12/2022 4:41:01 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/12/2022 4:41:01 PM
Surr: 4-Bromofluorobenzene	94.8	70-130	%Rec	1	10/12/2022 4:41:01 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	340	60	mg/Kg	20	10/14/2022 1:31:25 AM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-65 2'

 Project:
 Papas Fritas
 Collection Date: 10/6/2022 10:00:00 AM

 Lab ID:
 2210428-003
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/12/2022 4:53:35 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/12/2022 4:53:35 AM
Surr: DNOP	89.5	21-129	%Rec	1	10/12/2022 4:53:35 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/12/2022 5:04:25 PM
Surr: BFB	86.5	37.7-212	%Rec	1	10/12/2022 5:04:25 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/12/2022 5:04:25 PM
Toluene	ND	0.049	mg/Kg	1	10/12/2022 5:04:25 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/12/2022 5:04:25 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/12/2022 5:04:25 PM
Surr: 4-Bromofluorobenzene	94.9	70-130	%Rec	1	10/12/2022 5:04:25 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	97	60	mg/Kg	20	10/14/2022 1:43:50 AM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-67 2'

 Project:
 Papas Fritas
 Collection Date: 10/6/2022 10:05:00 AM

 Lab ID:
 2210428-004
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/12/2022 5:04:06 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/12/2022 5:04:06 AM
Surr: DNOP	89.9	21-129	%Rec	1	10/12/2022 5:04:06 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/12/2022 5:28:01 PM
Surr: BFB	84.7	37.7-212	%Rec	1	10/12/2022 5:28:01 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/12/2022 5:28:01 PM
Toluene	ND	0.050	mg/Kg	1	10/12/2022 5:28:01 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/12/2022 5:28:01 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/12/2022 5:28:01 PM
Surr: 4-Bromofluorobenzene	90.5	70-130	%Rec	1	10/12/2022 5:28:01 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	450	60	mg/Kg	20	10/14/2022 1:56:15 AM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-68 2'

Project: Papas Fritas
 Collection Date: 10/6/2022 10:10:00 AM

 Lab ID: 2210428-005
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/13/2022 4:20:25 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/13/2022 4:20:25 AM
Surr: DNOP	90.3	21-129	%Rec	1	10/13/2022 4:20:25 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/12/2022 1:57:00 PM
Surr: BFB	88.8	37.7-212	%Rec	1	10/12/2022 1:57:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/12/2022 1:57:00 PM
Toluene	ND	0.049	mg/Kg	1	10/12/2022 1:57:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/12/2022 1:57:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/12/2022 1:57:00 PM
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	1	10/12/2022 1:57:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	460	60	mg/Kg	20	10/14/2022 2:08:40 AM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-90 4'

 Project:
 Papas Fritas
 Collection Date: 10/6/2022 11:45:00 AM

 Lab ID:
 2210428-006
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/13/2022 4:30:57 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/13/2022 4:30:57 AM
Surr: DNOP	99.0	21-129	%Rec	1	10/13/2022 4:30:57 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/12/2022 5:51:24 PM
Surr: BFB	86.4	37.7-212	%Rec	1	10/12/2022 5:51:24 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/12/2022 5:51:24 PM
Toluene	ND	0.047	mg/Kg	1	10/12/2022 5:51:24 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/12/2022 5:51:24 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/12/2022 5:51:24 PM
Surr: 4-Bromofluorobenzene	93.2	70-130	%Rec	1	10/12/2022 5:51:24 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/14/2022 2:21:04 AM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-95 4'

 Project:
 Papas Fritas
 Collection Date: 10/6/2022 11:55:00 AM

 Lab ID:
 2210428-007
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/13/2022 4:41:27 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/13/2022 4:41:27 AM
Surr: DNOP	86.6	21-129	%Rec	1	10/13/2022 4:41:27 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/12/2022 6:14:59 PM
Surr: BFB	86.1	37.7-212	%Rec	1	10/12/2022 6:14:59 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/12/2022 6:14:59 PM
Toluene	ND	0.050	mg/Kg	1	10/12/2022 6:14:59 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/12/2022 6:14:59 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/12/2022 6:14:59 PM
Surr: 4-Bromofluorobenzene	93.1	70-130	%Rec	1	10/12/2022 6:14:59 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	90	59	mg/Kg	20	10/14/2022 2:33:29 AM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-96 4'

 Project:
 Papas Fritas
 Collection Date: 10/6/2022 12:00:00 PM

 Lab ID:
 2210428-008
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/13/2022 4:51:57 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/13/2022 4:51:57 AM
Surr: DNOP	89.4	21-129	%Rec	1	10/13/2022 4:51:57 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/12/2022 6:38:40 PM
Surr: BFB	83.3	37.7-212	%Rec	1	10/12/2022 6:38:40 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/12/2022 6:38:40 PM
Toluene	ND	0.047	mg/Kg	1	10/12/2022 6:38:40 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/12/2022 6:38:40 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/12/2022 6:38:40 PM
Surr: 4-Bromofluorobenzene	91.4	70-130	%Rec	1	10/12/2022 6:38:40 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/14/2022 2:45:54 AM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-102 4'

 Project:
 Papas Fritas
 Collection Date: 10/6/2022 12:50:00 PM

 Lab ID:
 2210428-009
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/13/2022 5:02:26 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/13/2022 5:02:26 AM
Surr: DNOP	79.4	21-129	%Rec	1	10/13/2022 5:02:26 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/12/2022 7:02:04 PM
Surr: BFB	86.1	37.7-212	%Rec	1	10/12/2022 7:02:04 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/12/2022 7:02:04 PM
Toluene	ND	0.047	mg/Kg	1	10/12/2022 7:02:04 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/12/2022 7:02:04 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/12/2022 7:02:04 PM
Surr: 4-Bromofluorobenzene	93.3	70-130	%Rec	1	10/12/2022 7:02:04 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	180	60	mg/Kg	20	10/14/2022 2:58:18 AM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-104 2'

Project: Papas Fritas **Collection Date:** 10/6/2022 12:55:00 PM Lab ID: 2210428-010 Matrix: SOIL Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/13/2022 5:12:52 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/13/2022 5:12:52 AM
Surr: DNOP	80.5	21-129	%Rec	1	10/13/2022 5:12:52 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/12/2022 7:25:23 PM
Surr: BFB	86.6	37.7-212	%Rec	1	10/12/2022 7:25:23 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/12/2022 7:25:23 PM
Toluene	ND	0.048	mg/Kg	1	10/12/2022 7:25:23 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/12/2022 7:25:23 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/12/2022 7:25:23 PM
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	10/12/2022 7:25:23 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	410	60	mg/Kg	20	10/14/2022 3:10:43 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Sample pH Not In Range

Page 10 of 19 RL Reporting Limit

Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-106 2'

Project: Papas Fritas
 Collection Date: 10/6/2022 1:05:00 PM

 Lab ID: 2210428-011
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/13/2022 5:23:23 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	10/13/2022 5:23:23 AM
Surr: DNOP	94.6	21-129	%Rec	1	10/13/2022 5:23:23 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/12/2022 7:48:41 PM
Surr: BFB	86.1	37.7-212	%Rec	1	10/12/2022 7:48:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/12/2022 7:48:41 PM
Toluene	ND	0.049	mg/Kg	1	10/12/2022 7:48:41 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/12/2022 7:48:41 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/12/2022 7:48:41 PM
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	10/12/2022 7:48:41 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	150	60	mg/Kg	20	10/14/2022 3:47:57 AM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-108 4'

 Project:
 Papas Fritas
 Collection Date: 10/6/2022 1:15:00 PM

 Lab ID:
 2210428-012
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/13/2022 5:44:18 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/13/2022 5:44:18 AM
Surr: DNOP	85.9	21-129	%Rec	1	10/13/2022 5:44:18 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/12/2022 8:35:19 PM
Surr: BFB	85.4	37.7-212	%Rec	1	10/12/2022 8:35:19 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/12/2022 8:35:19 PM
Toluene	ND	0.047	mg/Kg	1	10/12/2022 8:35:19 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/12/2022 8:35:19 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/12/2022 8:35:19 PM
Surr: 4-Bromofluorobenzene	94.1	70-130	%Rec	1	10/12/2022 8:35:19 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	210	60	mg/Kg	20	10/14/2022 4:00:21 AM

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

Qualifiers:

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

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Date Reported: 10/19/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-109 2'

 Project:
 Papas Fritas
 Collection Date: 10/6/2022 1:20:00 PM

 Lab ID:
 2210428-013
 Matrix: SOIL
 Received Date: 10/8/2022 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/13/2022 5:54:47 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/13/2022 5:54:47 AM
Surr: DNOP	74.4	21-129	%Rec	1	10/13/2022 5:54:47 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/12/2022 8:58:46 PM
Surr: BFB	83.6	37.7-212	%Rec	1	10/12/2022 8:58:46 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/12/2022 8:58:46 PM
Toluene	ND	0.047	mg/Kg	1	10/12/2022 8:58:46 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/12/2022 8:58:46 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/12/2022 8:58:46 PM
Surr: 4-Bromofluorobenzene	91.7	70-130	%Rec	1	10/12/2022 8:58:46 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	400	60	mg/Kg	20	10/14/2022 4:12:46 AM

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

Qualifiers:

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210428**

19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas

Sample ID: MB-70820 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70820 RunNo: 91800

Prep Date: 10/13/2022 Analysis Date: 10/13/2022 SeqNo: 3291259 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-70820 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70820 RunNo: 91800

Prep Date: 10/13/2022 Analysis Date: 10/13/2022 SeqNo: 3291260 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.9 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 Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2210428

19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas

Surr: DNOP

Sample ID: LCS-70721 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 70721 RunNo: 91700 Prep Date: 10/11/2022 Analysis Date: 10/11/2022 SeqNo: 3286198 Units: mq/Kq SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Diesel Range Organics (DRO) 33 15 50.00 Λ 67.0 64.4 127 Surr: DNOP 3.3 5.000 66.3 21 129

Sample ID: MB-70721 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 70721 RunNo: 91700 Prep Date: 10/11/2022 Analysis Date: 10/11/2022 SeqNo: 3286199 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 15 Motor Oil Range Organics (MRO) ND 50

82.6

129

21

Sample ID: LCS-70717 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

10.00

8.3

Client ID: LCSS Batch ID: 70717 RunNo: 91700 Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3288664

Units: %Rec Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 77.8 Surr: DNOP 3.9 5.000 21 129

Sample ID: MB-70717 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 70717 RunNo: 91700 Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3288669 Units: %Rec PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Result LowLimit HighLimit Qual

Surr: DNOP 9.9 10.00 98.8 129 Sample ID: LCS-70748 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 70748 RunNo: 91700 Prep Date: 10/11/2022 Analysis Date: 10/13/2022 SeqNo: 3291224 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Diesel Range Organics (DRO) 38 15 50.00 n 75.3 46.9 103 Surr: DNOP 4.0 5.000 80.2 21 129

Sample ID: MB-70748 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 70748 RunNo: 91700 Prep Date: 10/11/2022 Analysis Date: 10/13/2022 SeqNo: 3291225 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit Analyte Result PQL HighLimit %RPD **RPDLimit** Qual

Diesel Range Organics (DRO) ND 15

Qualifiers:

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210428**

19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas

Sample ID: MB-70748 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 70748 RunNo: 91700

Prep Date: 10/11/2022 Analysis Date: 10/13/2022 SeqNo: 3291225 Units: mg/Kg

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

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.9 10.00 98.5 21 129

Qualifiers:

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

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210428**

19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas

Sample ID: mb-70714 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70714 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286403 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 860 1000 86.4 37.7 212

Sample ID: Ics-70714 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70714 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286404 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 86.7 72.3 137 Surr: BFB 1700 1000 173 37.7 212

Sample ID: mb-70712 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70712 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286419 Units: %Rec

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

Surr: BFB 870 1000 87.2 37.7 212

Sample ID: Ics-70712 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70712 RunNo: 91687

Prep Date: 10/10/2022 Analysis Date: 10/11/2022 SeqNo: 3286420 Units: %Rec

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

Surr: BFB 1800 1000 178 37.7 212

Sample ID: mb-70734 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: **70734** RunNo: **91747**

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289015 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 880 1000 87.7 37.7 212

Sample ID: Ics-70734 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70734 RunNo: 91747

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289016 Units: mg/Kg

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

 Gasoline Range Organics (GRO)
 24
 5.0
 25.00
 0
 95.3
 72.3
 137

 Surr: BFB
 1800
 1000
 184
 37.7
 212

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210428**

19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas

Sample ID: mb-70714	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batc	h ID: 70	714	F	RunNo: 9	1687				
Prep Date: 10/10/2022	Analysis [Date: 10	0/11/2022	5	SeqNo: 3	286448	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		92.1	70	130			
Sample ID: 1 CS-70714	Samn	Type: I C		Tas	tCode: El	PA Method	8021B: Volat	iles		

Sample 1D. LC3-70714	Sampi	ype. LC	.3	163	icode. Ei	A Melilou	OUZ ID. VUIA	iies		
Client ID: LCSS	Batcl	h ID: 70	714	F	RunNo: 9	1687				
Prep Date: 10/10/2022	Analysis D	Date: 10)/11/2022	9	SeqNo: 3	286449	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.7	80	120			
Toluene	0.90	0.050	1.000	0	89.6	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.5	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.3	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.9	70	130			

Sample ID: mb-70712	SampTyp	e: MBLK		Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch II	D: 70712		F	RunNo: 9	1687				
Prep Date: 10/10/2022	Analysis Dat	e: 10/11/	2022	8	SeqNo: 3	286464	Units: %Rec	:		
Analyte	Result	PQL SP	K value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.93		1.000		93.0	70	130			

Sample ID: LCS-70712	SampTy	ype: LC	S	Test	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	ID: 70	712	R	RunNo: 9	1687				
Prep Date: 10/10/2022	Analysis Da	ate: 10	0/11/2022	S	SeqNo: 3	286465	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.95		1.000		95.1	70	130			

Sample ID: mb-70734	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: 70 7	734	F	RunNo: 9	1747				
Prep Date: 10/11/2022	Analysis D	oate: 10	/12/2022	S	SeqNo: 3	289053	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								

Qualifiers:

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2210428

19-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas

Sample ID: mb-70734 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 70734 RunNo: 91747

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289053 Units: mq/Kq

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

Surr: 4-Bromofluorobenzene 0.96 1.000 95.7 70 130

Sample ID: LCS-70734 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 70734 RunNo: 91747

Units: mg/Kg Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289054 SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Benzene 0.96 0.025 1.000 0 96.5 80 120 Toluene 0.96 0.050 1.000 0 96.5 80 120 0 96.3 80 Ethylbenzene 0.96 0.050 1.000 120 Xylenes, Total 2.9 0.10 3.000 0 95.8 80 120 0.95 1.000 95.1 70 130 Surr: 4-Bromofluorobenzene

Sample ID: 2210428-005ams TestCode: EPA Method 8021B: Volatiles SampType: MS

BES22-68 2' RunNo: 91747 Client ID: Batch ID: 70734

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289062 Units: mg/Kg

SPK value SPK Ref Val **RPDLimit** Result PQL %REC LowLimit HighLimit %RPD Qual Analyte 1.0 0.023 0.9355 0 107 68.8 120 Renzene Toluene 1.0 0.047 0.9355 0 107 73.6 124 0.047 0 72.7 Ethylbenzene 1.0 0.9355 109 129 Xylenes, Total 3.0 0.094 2.806 0.01816 107 75.7 126 Surr: 4-Bromofluorobenzene 0.90 0.9355 95.9 130 70

Sample ID: 2210428-005amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: BES22-68 2' Batch ID: 70734 RunNo: 91747

Prep Date: 10/11/2022	Analysis [Date: 10	0/12/2022	5	SeqNo: 3	289063	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9434	0	108	68.8	120	2.01	20	
Toluene	1.0	0.047	0.9434	0	109	73.6	124	2.30	20	
Ethylbenzene	1.0	0.047	0.9434	0	109	72.7	129	0.744	20	
Xylenes, Total	3.0	0.094	2.830	0.01816	107	75.7	126	0.697	20	
Surr: 4-Bromofluorobenzene	0.89		0.9434		94.5	70	130	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

Estimated value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 19 of 19

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

Sample Log-In Check List

Client Name:	Vertex Resources Services, Inc.	Work Order Num	ber: 22104	128		RcptNo: 1	
Received By:	Cheyenne Cason	10/8/2022 8:30:00	АМ	C	ful		
Completed By:	Cheyenne Cason	10/8/2022 9:16:21	AM	Ċ	ful bul		
Reviewed By:	20	10/8					
Chain of Cus	stody						
	ustody complete?		Yes	~	No 🗌	Not Present	
2. How was the	sample delivered?		Courie	<u>er</u>			
Log In							
The second secon	npt made to cool the samp	les?	Yes	V	No 🗆	NA 🗆	
4. Were all samp	ples received at a tempera	ture of >0° C to 6.0°C	Yes	V	No 🗌	NA 🗆	
5. Sample(s) in	proper container(s)?		Yes	V	No 🗌		
6. Sufficient sam	ple volume for indicated to	est(s)?	Yes S		No 🗌		
	except VOA and ONG) pro		Yes S		No 🗆		
	tive added to bottles?		Yes [No 🗸	NA 🗆	
9. Received at le	ast 1 vial with headspace	<1/4" for AQ VOA?	Yes [No 🗆	NA 🗸	
	nple containers received b		Yes	7	No 🗸		
	ork match bottle labels?		Yes 🖸		No 🗌	# of preserved bottles checked for pH:	unless noted)
	correctly identified on Chair		Yes V		No 🗌	Adjusted?	unless noted)
13. Is it clear what	analyses were requested	?	Yes N		No 🗌		
	ng times able to be met? ustomer for authorization.)		Yes V		No 🗌	Checked by:	C 10/8/2
Special Handl	ing (if applicable)						
030 Bulb 35 BB 3	tified of all discrepancies v	vith this order?	Yes []	No 🗆	NA 🗹	
Person	Notified:	Date					
By Who	m:	Via:	eMail	Phone	Fax	In Person	
Regardi	ng:						
Client In	structions:					-	
16. Additional rer	marks:						
17. Cooler Information Cooler No	mation Temp °C Condition 4.9 Good	Seal Intact Seal No Not Present	Seal Date	e Sign	ed By		

Mailing Address: on file Phone #: CA/QC Package: Standard Accreditation:	4 (Full Validation)	Standard Project Name: Paρ μς F(-	Rush S:	5 Day			A	ANALYSIS	SIS	1	ANALYSIS LABORATO	by QCD:
S: on £;	4 (Full Validation)	<u></u>							1	1	5	<u>CD</u> :
S: on £i	4 (Full Validation)	-		,				ollod "	- California	Laborated		
☐ Az Cor☐ Other Sp.	4 (Full Validation)	w	ritas		4	4901 Hawkins NF	wkins	Ē,	IIVIIOIII	nental	Albuquerque NM 87109	12/
☐ Az Cor☐ Other So ☐	4 (Full Validation)	Lix				Tel 505	505-345-3975	1	Fax	505 37	505 345 4107	2/20.
∴ Az Cor □ Other So i │ So i │	4 (Full Validation)		- 01417	7		300	200	Ans		Request	5-4107 St	22 2
☐ Az Cor☐ Other So ☐	4 (Full Validation)	Project Manager:	ger:			Ļ	H			(+	(2)	:02:
□ Az Cor □ Other Soi		Kent	Kent Stallin	3			SMIS)S 'Oa	10 tto 1	u034 V/1	uasava	23 PM -
Matrix Soil		Sampler: 3	2E/SPC			280		901	1701	u030	uoe:	
Matrix So i		On Ice:	d Yes	ON 🗆		8/s		_				
Matrix Soil		# of Coolers:)			əbi		_			\	
Matrix So		Cooler Temp(including CF): 4	100000	(0.) b'h=0.b		oitee					101116	
Soil	Sample Name	Container Type and #	Preservative Type	HEAL No.	(X∃T8 08(H9T)	9081 만	EDB (M	RCRA 8	SS60 (V	8) 0728 S270 (S	0 1220	
_	Brees Extes 8 ES22-612	1-jar	1.00	8				-	1. YES			
	12.62 2			COL								
	5			<i>w3</i>								
10:05 BES	BES22-67 2'			H0								
10:10 BES	BES22-68 2'			500								
11:45 B Es22-	322- 90 4			900			Į.					
11,55 B ES 22-	522-95 4			100								
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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

October 21, 2022

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

FAX

RE: Papas Fritas 27 CTB 1 OrderNo.: 2210467

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 9 sample(s) on 10/11/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-01 0-2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/7/2022 9:45:00 AM

 Lab ID:
 2210467-001
 Matrix: SOIL
 Received Date: 10/11/2022 7:25:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/13/2022 7:07:55 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/13/2022 7:07:55 AM
Surr: DNOP	95.2	21-129	%Rec	1	10/13/2022 7:07:55 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/12/2022 9:45:45 PM
Surr: BFB	82.8	37.7-212	%Rec	1	10/12/2022 9:45:45 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/12/2022 9:45:45 PM
Toluene	ND	0.048	mg/Kg	1	10/12/2022 9:45:45 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/12/2022 9:45:45 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/12/2022 9:45:45 PM
Surr: 4-Bromofluorobenzene	91.1	70-130	%Rec	1	10/12/2022 9:45:45 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/14/2022 9:55:49 PM

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

Qualifiers:

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

Page 1 of 16

Date Reported: 10/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-02 0-2'

Project: Papas Fritas 27 CTB 1 Collection Date: 10/7/2022 9:50:00 AM

Lab ID: 2210467-002 Matrix: SOIL Received Date: 10/11/2022 7:25:00 AM Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 15 mg/Kg 1 10/13/2022 7:18:25 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 10/13/2022 7:18:25 AM Surr: DNOP 81.3 21-129 %Rec 1 10/13/2022 7:18:25 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 10/12/2022 10:09:19 PM 4.8 mg/Kg 1 Surr: BFB 84.9 37.7-212 %Rec 1 10/12/2022 10:09:19 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.024 mg/Kg 10/12/2022 10:09:19 PM 1 Toluene ND 0.048 mg/Kg 1 10/12/2022 10:09:19 PM Ethylbenzene ND 0.048 mg/Kg 1 10/12/2022 10:09:19 PM Xylenes, Total ND 0.097 mg/Kg 1 10/12/2022 10:09:19 PM 10/12/2022 10:09:19 PM Surr: 4-Bromofluorobenzene 92.0 70-130 %Rec 1 Analyst: JTT **EPA METHOD 300.0: ANIONS** Chloride ND 59 10/14/2022 10:08:14 PM ma/Ka 20

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

Qualifiers:

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

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Date Reported: 10/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-12 0-4'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/7/2022 10:05:00 AM

 Lab ID:
 2210467-003
 Matrix: SOIL
 Received Date: 10/11/2022 7:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR		Analyst: DGH			
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/13/2022 7:28:56 AM
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	10/13/2022 7:28:56 AM
Surr: DNOP	92.7	21-129	%Rec	1	10/13/2022 7:28:56 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/12/2022 10:32:54 PM
Surr: BFB	82.4	37.7-212	%Rec	1	10/12/2022 10:32:54 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/12/2022 10:32:54 PM
Toluene	ND	0.048	mg/Kg	1	10/12/2022 10:32:54 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/12/2022 10:32:54 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/12/2022 10:32:54 PM
Surr: 4-Bromofluorobenzene	90.8	70-130	%Rec	1	10/12/2022 10:32:54 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/14/2022 10:20:38 PM

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

Qualifiers:

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

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Date Reported: 10/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-17 0-2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/7/2022 10:15:00 AM

 Lab ID:
 2210467-004
 Matrix: SOIL
 Received Date: 10/11/2022 7:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/13/2022 7:39:27 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/13/2022 7:39:27 AM
Surr: DNOP	55.3	21-129	%Rec	1	10/13/2022 7:39:27 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/12/2022 10:56:29 PM
Surr: BFB	85.2	37.7-212	%Rec	1	10/12/2022 10:56:29 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/12/2022 10:56:29 PM
Toluene	ND	0.048	mg/Kg	1	10/12/2022 10:56:29 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/12/2022 10:56:29 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/12/2022 10:56:29 PM
Surr: 4-Bromofluorobenzene	92.9	70-130	%Rec	1	10/12/2022 10:56:29 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	350	60	mg/Kg	20	10/14/2022 10:33:02 PM

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

Qualifiers:

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

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Date Reported: 10/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-20 0-2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/7/2022 10:20:00 AM

 Lab ID:
 2210467-005
 Matrix: SOIL
 Received Date: 10/11/2022 7:25:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 13 mg/Kg 1 10/13/2022 7:49:59 AM Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 10/13/2022 7:49:59 AM 21-129 Surr: DNOP 82.9 %Rec 1 10/13/2022 7:49:59 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 10/12/2022 11:20:02 PM 4.6 mg/Kg 1 Surr: BFB 84.9 37.7-212 %Rec 1 10/12/2022 11:20:02 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.023 mg/Kg 10/12/2022 11:20:02 PM 1 Toluene ND 0.046 mg/Kg 1 10/12/2022 11:20:02 PM Ethylbenzene ND 0.046 mg/Kg 1 10/12/2022 11:20:02 PM Xylenes, Total ND 0.093 mg/Kg 1 10/12/2022 11:20:02 PM Surr: 4-Bromofluorobenzene 92.9 70-130 %Rec 1 10/12/2022 11:20:02 PM Analyst: JTT **EPA METHOD 300.0: ANIONS** Chloride 330 60 10/14/2022 10:45:26 PM ma/Ka 20

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

Qualifiers:

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

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Date Reported: 10/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-21 0-2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/7/2022 10:25:00 AM

 Lab ID:
 2210467-006
 Matrix: SOIL
 Received Date: 10/11/2022 7:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR		Analyst: SB			
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/14/2022 11:59:32 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/14/2022 11:59:32 AM
Surr: DNOP	117	21-129	%Rec	1	10/14/2022 11:59:32 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/12/2022 12:06:00 PM
Surr: BFB	95.7	37.7-212	%Rec	1	10/12/2022 12:06:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.025	mg/Kg	1	10/12/2022 12:06:00 PM
Toluene	ND	0.050	mg/Kg	1	10/12/2022 12:06:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/12/2022 12:06:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/12/2022 12:06:00 PM
Surr: 4-Bromofluorobenzene	96.1	70-130	%Rec	1	10/12/2022 12:06:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	330	60	mg/Kg	20	10/14/2022 10:57:51 PM

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

Qualifiers:

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

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Date Reported: 10/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-30 0-2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/7/2022 10:35:00 AM

 Lab ID:
 2210467-007
 Matrix: SOIL
 Received Date: 10/11/2022 7:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/14/2022 1:10:35 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/14/2022 1:10:35 PM
Surr: DNOP	97.2	21-129	%Rec	1	10/14/2022 1:10:35 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/12/2022 1:05:00 PM
Surr: BFB	94.8	37.7-212	%Rec	1	10/12/2022 1:05:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	10/12/2022 1:05:00 PM
Toluene	ND	0.047	mg/Kg	1	10/12/2022 1:05:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/12/2022 1:05:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/12/2022 1:05:00 PM
Surr: 4-Bromofluorobenzene	94.4	70-130	%Rec	1	10/12/2022 1:05:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	110	59	mg/Kg	20	10/14/2022 11:10:16 PM

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

Qualifiers:

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

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Date Reported: 10/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-34 0-2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/7/2022 10:50:00 AM

 Lab ID:
 2210467-008
 Matrix: SOIL
 Received Date: 10/11/2022 7:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OI	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/14/2022 1:34:13 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/14/2022 1:34:13 PM
Surr: DNOP	98.0	21-129	%Rec	1	10/14/2022 1:34:13 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/12/2022 2:24:00 PM
Surr: BFB	96.8	37.7-212	%Rec	1	10/12/2022 2:24:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.024	mg/Kg	1	10/12/2022 2:24:00 PM
Toluene	ND	0.048	mg/Kg	1	10/12/2022 2:24:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/12/2022 2:24:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/12/2022 2:24:00 PM
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	1	10/12/2022 2:24:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/17/2022 11:18:00 AM

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

Qualifiers:

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

Page 8 of 16

Date Reported: 10/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-35 0-4'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/7/2022 11:00:00 AM

 Lab ID:
 2210467-009
 Matrix: SOIL
 Received Date: 10/11/2022 7:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/14/2022 1:57:53 PM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	10/14/2022 1:57:53 PM
Surr: DNOP	122	21-129	%Rec	1	10/14/2022 1:57:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: BRM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/12/2022 2:43:00 PM
Surr: BFB	92.5	37.7-212	%Rec	1	10/12/2022 2:43:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: BRM
Benzene	ND	0.023	mg/Kg	1	10/12/2022 2:43:00 PM
Toluene	ND	0.046	mg/Kg	1	10/12/2022 2:43:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/12/2022 2:43:00 PM
Xylenes, Total	ND	0.092	mg/Kg	1	10/12/2022 2:43:00 PM
Surr: 4-Bromofluorobenzene	93.3	70-130	%Rec	1	10/12/2022 2:43:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	300	60	mg/Kg	20	10/17/2022 11:30:20 AM

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

Qualifiers:

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

Page 9 of 16

Hall Environmental Analysis Laboratory, Inc.

2210467 21-Oct-22

WO#:

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: MB-70846 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70846 RunNo: 91834

Prep Date: 10/14/2022 Analysis Date: 10/14/2022 SeqNo: 3293127 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-70846 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70846 RunNo: 91834

Prep Date: 10/14/2022 Analysis Date: 10/14/2022 SeqNo: 3293128 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 96.1 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

2210467 21-Oct-22

WO#:

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: LCS-70748	SampTy	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch	ID: 70 7	748	F	tunNo: 9	1700				
Prep Date: 10/11/2022	Analysis Da	te: 10	/13/2022	S	SeqNo: 32	291224	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	15	50.00	0	75.3	46.9	103			
Surr: DNOP	4.0		5.000		80.2	21	129			
Sample ID: MB-70748	SampTy	ре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 70 7	748	F	RunNo: 91700					
Prep Date: 10/11/2022	Analysis Da	te: 10	/13/2022	S	SeqNo: 32	291225	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		98.5	21	129			
Sample ID: MB-70822	SampTy	ре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 70 8	322	F	tunNo: 9	1846				
Prep Date: 10/13/2022	Analysis Da	te: 10	/14/2022	S	SeqNo: 32	293491	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		121	21	129			

Sample ID: LCS-70822	SampT	ype: LC	S	Test	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch	ID: 70 8	322	R	tunNo: 9	1846				
Prep Date: 10/13/2022	Analysis D	ate: 10	/14/2022	S	SeqNo: 3	293492	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	15	50.00	0	102	64.4	127			
Surr: DNOP	5.2		5.000		104	21	129			

Sample ID: 2210467-006AMS	SampT	ype: MS	5	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: WES22-21 0-2'	Batch	n ID: 70	822	F	RunNo: 9	1846				
Prep Date: 10/13/2022	Analysis D	ate: 10)/14/2022	9	SeqNo: 3	293494	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	13	42.70	0	115	36.1	154			
Surr: DMOD	17		4 270		100	21	120			

Diesel Range Organics (DRO)	49	13	42.70	0	115	36.1	154
Surr: DNOP	4.7		4.270		109	21	129

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

2210467

Qual

WO#:

21-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: 2210467-006AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: WES22-21 0-2' Batch ID: 70822 RunNo: 91846

Prep Date: 10/13/2022 Analysis Date: 10/14/2022 SeqNo: 3293495 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	
Diesel Range Organics (DRO)	46	15	49.41	0	92.8	36.1	154	7.23	33.9	
Surr: DNOP	3.9		4.941		78.6	21	129	0	0	

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210467**

21-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: mb-70734 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70734 RunNo: 91747

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289015 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 880 1000 87.7 37.7 212

Sample ID: Ics-70734 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70734 RunNo: 91747

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289016 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 25.00 O 95.3 72.3 137 Surr: BFB 1800 1000 184 37.7 212

Sample ID: Ics-70739 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70739 RunNo: 91729

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289240 Units: mg/Kg

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result POI %REC LowLimit HighLimit Qual Gasoline Range Organics (GRO) 24 5.0 25.00 0 94.0 72.3 137 Surr: BFB 37.7 2000 1000 204 212

Sample ID: mb-70739 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70739 RunNo: 91729

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289241 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Sasoline Range Organics (GRO) ND 5.0
Surr: BFB 970

Sample ID: 2210467-006ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: WES22-21 0-2' Batch ID: 70739 RunNo: 91729

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289251 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 0 70 25.00 95.6 130 Surr: BFB 2200 1000 216 37.7 212 S

Sample ID: 2210467-006amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: WES22-21 0-2' Batch ID: 70739 RunNo: 91729

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289252 Units: mg/Kg

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

Qualifiers:

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

97.3

37.7

212

- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210467**

21-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: 2210467-006amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: WES22-21 0-2' Batch ID: 70739 RunNo: 91729

Prep Date: 10/11/2022 Analysis Date: 10/12/2022 SeqNo: 3289252 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 0 4.72 20 25 5.0 24.98 100 70 130 Surr: BFB 2200 999.0 218 37.7 212 0 0 S

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2210467

21-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: mb-70734	Samp1	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batc	h ID: 70	734	F	RunNo: 9	1747				
Prep Date: 10/11/2022	Analysis [Date: 10)/12/2022	S	SeqNo: 3	289053	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								

Surr: 4-Bromofluorobenzene 0.96 1.000 95.7 70 130

Sample ID: LCS-70734	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	n ID: 70 7	734	F	RunNo: 9	1747				
Prep Date: 10/11/2022	Analysis D	Date: 10	/12/2022	8	SeqNo: 3	289054	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.5	80	120			
Toluene	0.96	0.050	1.000	0	96.5	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.8	80	120			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.1	70	130			

Sample ID: Ics-70739	Sampl	ype: LC	:S	TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batcl	h ID: 70	739	F	RunNo: 9	1729					
Prep Date: 10/11/2022	Analysis D	Date: 10	0/12/2022	\$	SeqNo: 3	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1	0.025	1.000	0	111	80	120				
Toluene	1.1	0.050	1.000	0	109	80	120				
Ethylbenzene	1.1	0.050	1.000	0	109	80	120				
Xylenes, Total	3.2	0.10	3.000	0	107	80	120				
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130				

Sample ID: mb-70739	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	iles		
Client ID: PBS	Batch	n ID: 70	739	F	RunNo: 9	1729				
Prep Date: 10/11/2022	Analysis D	oate: 10)/12/2022	8	SeqNo: 3	289262	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.0	70	130			

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210467**

21-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: 2210467-007ams	SampT	уре: МS	3	Tes	tCode: El	iles				
Client ID: WES22-30 0-2'	Batcl	n ID: 70 7	739	F	RunNo: 9	1729				
Prep Date: 10/11/2022	Analysis D	Date: 10	/12/2022	S	SeqNo: 3	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.024	0.9425	0	122	68.8	120			S
Toluene	1.1	0.047	0.9425	0	121	73.6	124			
Ethylbenzene	1.1	0.047	0.9425	0	122	72.7	129			
Xylenes, Total	3.4	0.094	2.828	0	119	75.7	126			
Surr: 4-Bromofluorobenzene	0.92		0.9425		97.8	70	130			

Sample ID: 2210467-007amsd	I Samp1	уре: М	SD	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: WES22-30 0-2'	Batcl	h ID: 70	739	F	RunNo: 9	1729				
Prep Date: 10/11/2022	Analysis D	Date: 10)/12/2022	\$	SeqNo: 3	289266	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.023	0.9381	0	118	68.8	120	4.16	20	
Toluene	1.1	0.047	0.9381	0	116	73.6	124	4.45	20	
Ethylbenzene	1.1	0.047	0.9381	0	116	72.7	129	5.08	20	
Xylenes, Total	3.2	0.094	2.814	0	114	75.7	126	4.95	20	
Surr: 4-Bromofluorobenzene	0.92		0.9381		98.1	70	130	0	0	

Qualifiers:

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

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

Sample Log-In Check List

Received By:				0467		RcptN	10: 1
reconica by.	Juan Rojas	10/11/2022 7:25:0	0 AM		flans of		
Completed By:	Cheyenne Cason	10/11/2022 8:40:0	8 AM		(had		
Reviewed By:	WPC 10.1	1.33					
Chain of Cus	<u>tody</u>						
1. Is Chain of Co	ustody complete?		Yes	~	No 🗌	Not Present	
2. How was the	sample delivered?		Cou	rier			
Log In							
	pt made to cool the sample	es?	Yes	V	No 🗌	NA 🗌	
4. Were all samp	oles received at a temperat	ure of >0° C to 6.0°C	Yes	V	No 🗌	NA 🗆	
5. Sample(s) in p	proper container(s)?		Yes	V	No 🗌		
6. Sufficient sam	ple volume for indicated te	st(s)?	Yes	V	No 🗌		
7. Are samples (except VOA and ONG) pro	perly preserved?	Yes	V	No 🗌		
Was preservat	tive added to bottles?		Yes		No 🗸	NA 🗌	
9. Received at lea	ast 1 vial with headspace <	1/4" for AQ VOA?	Yes		No 🗌	NA 🗹	
0. Were any sam	ple containers received br	oken?	Yes		No 🗸	4.22.00.00.00	
	rk match bottle labels?		Yes	V	No 🗌	# of preserved bottles checked for pH:	
	ncies on chain of custody) orrectly identified on Chain	of Custodia	1000		in Eq.	(<2 o	or >12 unless noted)
	analyses were requested?		Yes Yes	V	No □ No □	Adjusted	
4. Were all holdin	g times able to be met? stomer for authorization.)		Yes		No 🗆	Checked by:	Juli1/2
	ng (if applicable)						
	ified of all discrepancies wi	ith this order?	Yes		No 🗌	NA 🗹	
Person N	Notified:	Date					
By Whor	m:	Via:	eMa	ail 🔲 li	Phone Fax	☐ In Person	
Regardin	A. III						
Client Ins	structions:						
6. Additional rem	narks:						
7. Cooler Inform	nation						
Cooler No	Temp °C Condition 2.0 Good I	Seal Intact Seal No	Seal Da	ite	Signed By		

Clien	t: Vovi	11/1/	Client: VavA V (Dallan)	5						I	ALL	M	VIR	HALL ENVIRONMENTAL	NTAL
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			0		Project #:			1	10 F	DE 24E	1.		neidne	Albuquerque, NMI 87109	
Phone #:	:# 6				LLE-	41410-	4		9.0	1el. 303-343-3973	C/60-	Analysis	505-345-	505-345-4107	
email	email or Fax#:				Project Manager:	ager:			((† (3 (4
QAVQC	QA/QC Package:				Kent		Stadings					OS Ԡ(pseut	
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					Cooler Temp(including CF):7	D(including CF).	1-6-1-2-0 (°C)	TM			əM 8			olifor	
Date	Time	Matrix	Sample Name		Container Type and #	Preservative Type	HEAL No.) (EITE	08:H97 9 1808	N) BOE	AHS b	39E, E	S) 072	o lsto	
10/7	9:45	Soil	WES22-01	0-5'		ice	600		V-0		4			ı	
. —	9:50	-	WES22-02	0-2'		3 -		-							
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	10:15		WES 22 17	7-0			202			t		7			
	10:20		WES22-20	17-0			3		l h						
	10:15		WES22-21	0-5,			30%								
	10:35		WES 22-30	12-0			27.0								
	10:50		WES22-34	17-0			800			H					
-	00:11	-	WES22-35	24'	_		hay	=							
	1														
Date: 10/7	20	Relinquished by:	ed by:		Received by: Vi	Via:	Date Time	Remarks:	ks:	bro	arks: Trader & 20921024	70%	1 246	741	
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10/01	1. 22/11/01 / / / / / / / / / / / / / / / / /	2000	1	1	1	ノナラくろ	ノナルノニの								



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

October 24, 2022

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

FAX:

RE: Papas Fritas 27 CTB 1 OrderNo.: 2210780

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 21 sample(s) on 10/15/2022 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,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-86 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:00:00 PM

 Lab ID:
 2210780-001
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/18/2022 8:32:48 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/18/2022 8:32:48 PM
Surr: DNOP	149	21-129	S	%Rec	1	10/18/2022 8:32:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/17/2022 1:47:53 PM
Surr: BFB	87.4	37.7-212		%Rec	1	10/17/2022 1:47:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/17/2022 1:47:53 PM
Toluene	ND	0.050		mg/Kg	1	10/17/2022 1:47:53 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/17/2022 1:47:53 PM
Xylenes, Total	ND	0.099		mg/Kg	1	10/17/2022 1:47:53 PM
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	10/17/2022 1:47:53 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	10/17/2022 10:47:19 PM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-87 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:05:00 PM

 Lab ID:
 2210780-002
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	10/18/2022 9:05:14 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/18/2022 9:05:14 PM
Surr: DNOP	151	21-129	S	%Rec	1	10/18/2022 9:05:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/17/2022 2:58:08 PM
Surr: BFB	87.2	37.7-212		%Rec	1	10/17/2022 2:58:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/17/2022 2:58:08 PM
Toluene	ND	0.049		mg/Kg	1	10/17/2022 2:58:08 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/17/2022 2:58:08 PM
Xylenes, Total	ND	0.098		mg/Kg	1	10/17/2022 2:58:08 PM
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	10/17/2022 2:58:08 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	10/17/2022 10:59:44 PM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-88 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:10:00 PM

 Lab ID:
 2210780-003
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/18/2022 9:16:00 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/18/2022 9:16:00 PM
Surr: DNOP	93.1	21-129	%Rec	1	10/18/2022 9:16:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 4:08:36 PM
Surr: BFB	87.7	37.7-212	%Rec	1	10/17/2022 4:08:36 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/17/2022 4:08:36 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 4:08:36 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 4:08:36 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/17/2022 4:08:36 PM
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	10/17/2022 4:08:36 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/17/2022 8:59:34 PM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-89 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:15:00 PM

 Lab ID:
 2210780-004
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	10/18/2022 9:26:44 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/18/2022 9:26:44 PM
Surr: DNOP	138	21-129	S	%Rec	1	10/18/2022 9:26:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/17/2022 5:42:59 PM
Surr: BFB	86.9	37.7-212		%Rec	1	10/17/2022 5:42:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	10/17/2022 5:42:59 PM
Toluene	ND	0.050		mg/Kg	1	10/17/2022 5:42:59 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/17/2022 5:42:59 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/17/2022 5:42:59 PM
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	10/17/2022 5:42:59 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	10/17/2022 10:01:17 PM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-91 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:20:00 PM

 Lab ID:
 2210780-005
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/18/2022 9:37:27 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/18/2022 9:37:27 PM
Surr: DNOP	101	21-129	%Rec	1	10/18/2022 9:37:27 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/17/2022 6:06:27 PM
Surr: BFB	85.7	37.7-212	%Rec	1	10/17/2022 6:06:27 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/17/2022 6:06:27 PM
Toluene	ND	0.050	mg/Kg	1	10/17/2022 6:06:27 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/17/2022 6:06:27 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/17/2022 6:06:27 PM
Surr: 4-Bromofluorobenzene	92.4	70-130	%Rec	1	10/17/2022 6:06:27 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/17/2022 10:38:18 PM

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

Qualifiers:

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

ple pH Not In Range Page 5 of 28

Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-92 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:25:00 PM

 Lab ID:
 2210780-006
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/18/2022 9:48:09 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/18/2022 9:48:09 PM
Surr: DNOP	120	21-129	%Rec	1	10/18/2022 9:48:09 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 6:29:52 PM
Surr: BFB	86.9	37.7-212	%Rec	1	10/17/2022 6:29:52 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/17/2022 6:29:52 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 6:29:52 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 6:29:52 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/17/2022 6:29:52 PM
Surr: 4-Bromofluorobenzene	95.0	70-130	%Rec	1	10/17/2022 6:29:52 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/17/2022 10:50:38 PM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-93 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:30:00 PM

 Lab ID:
 2210780-007
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/18/2022 9:58:50 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	10/18/2022 9:58:50 PM
Surr: DNOP	89.5	21-129	%Rec	1	10/18/2022 9:58:50 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 6:53:17 PM
Surr: BFB	85.8	37.7-212	%Rec	1	10/17/2022 6:53:17 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/17/2022 6:53:17 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 6:53:17 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 6:53:17 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/17/2022 6:53:17 PM
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	1	10/17/2022 6:53:17 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/17/2022 11:02:59 PM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-94 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:35:00 PM

 Lab ID:
 2210780-008
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/18/2022 10:20:02 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/18/2022 10:20:02 PM
Surr: DNOP	95.2	21-129	%Rec	1	10/18/2022 10:20:02 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 7:16:49 PM
Surr: BFB	86.0	37.7-212	%Rec	1	10/17/2022 7:16:49 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/17/2022 7:16:49 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 7:16:49 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 7:16:49 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/17/2022 7:16:49 PM
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	10/17/2022 7:16:49 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/17/2022 11:15:20 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-97 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:40:00 PM

 Lab ID:
 2210780-009
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/18/2022 10:30:41 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/18/2022 10:30:41 PM
Surr: DNOP	91.8	21-129	%Rec	1	10/18/2022 10:30:41 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/17/2022 7:40:27 PM
Surr: BFB	87.4	37.7-212	%Rec	1	10/17/2022 7:40:27 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/17/2022 7:40:27 PM
Toluene	ND	0.048	mg/Kg	1	10/17/2022 7:40:27 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/17/2022 7:40:27 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/17/2022 7:40:27 PM
Surr: 4-Bromofluorobenzene	95.4	70-130	%Rec	1	10/17/2022 7:40:27 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/17/2022 11:27:41 PM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-98 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:45:00 PM

 Lab ID:
 2210780-010
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/18/2022 10:41:35 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/18/2022 10:41:35 PM
Surr: DNOP	97.4	21-129	%Rec	1	10/18/2022 10:41:35 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 8:04:05 PM
Surr: BFB	85.2	37.7-212	%Rec	1	10/17/2022 8:04:05 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/17/2022 8:04:05 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 8:04:05 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 8:04:05 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/17/2022 8:04:05 PM
Surr: 4-Bromofluorobenzene	92.3	70-130	%Rec	1	10/17/2022 8:04:05 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/18/2022 12:04:41 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-99 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:50:00 PM

 Lab ID:
 2210780-011
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/18/2022 10:52:11 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/18/2022 10:52:11 PM
Surr: DNOP	88.0	21-129	%Rec	1	10/18/2022 10:52:11 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/17/2022 8:27:40 PM
Surr: BFB	85.1	37.7-212	%Rec	1	10/17/2022 8:27:40 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/17/2022 8:27:40 PM
Toluene	ND	0.048	mg/Kg	1	10/17/2022 8:27:40 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/17/2022 8:27:40 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/17/2022 8:27:40 PM
Surr: 4-Bromofluorobenzene	92.8	70-130	%Rec	1	10/17/2022 8:27:40 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/18/2022 12:17:01 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-100 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 1:55:00 PM

 Lab ID:
 2210780-012
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/18/2022 11:02:46 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	10/18/2022 11:02:46 PM
Surr: DNOP	95.5	21-129	%Rec	1	10/18/2022 11:02:46 PM
EPA METHOD 8015D: GASOLINE RANGE	<u> </u>				Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/17/2022 8:51:15 PM
Surr: BFB	86.0	37.7-212	%Rec	1	10/17/2022 8:51:15 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/17/2022 8:51:15 PM
Toluene	ND	0.050	mg/Kg	1	10/17/2022 8:51:15 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/17/2022 8:51:15 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/17/2022 8:51:15 PM
Surr: 4-Bromofluorobenzene	93.2	70-130	%Rec	1	10/17/2022 8:51:15 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/18/2022 12:29:22 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-101 4'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 2:00:00 PM

 Lab ID:
 2210780-013
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: mb				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/18/2022 11:13:21 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/18/2022 11:13:21 PM
Surr: DNOP	97.7	21-129	%Rec	1	10/18/2022 11:13:21 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 9:14:40 PM
Surr: BFB	85.0	37.7-212	%Rec	1	10/17/2022 9:14:40 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/17/2022 9:14:40 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 9:14:40 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 9:14:40 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/17/2022 9:14:40 PM
Surr: 4-Bromofluorobenzene	93.0	70-130	%Rec	1	10/17/2022 9:14:40 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/18/2022 12:41:43 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-103 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 2:05:00 PM

 Lab ID:
 2210780-014
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/18/2022 11:23:54 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/18/2022 11:23:54 PM
Surr: DNOP	102	21-129	%Rec	1	10/18/2022 11:23:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/17/2022 10:01:32 PM
Surr: BFB	86.9	37.7-212	%Rec	1	10/17/2022 10:01:32 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/17/2022 10:01:32 PM
Toluene	ND	0.047	mg/Kg	1	10/17/2022 10:01:32 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/17/2022 10:01:32 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/17/2022 10:01:32 PM
Surr: 4-Bromofluorobenzene	95.3	70-130	%Rec	1	10/17/2022 10:01:32 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	59	mg/Kg	20	10/18/2022 12:54:03 AM

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

Qualifiers:

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

Not in Range .imit Page 14 of 28

Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-105 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 2:10:00 PM

 Lab ID:
 2210780-015
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/18/2022 11:34:27 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/18/2022 11:34:27 PM
Surr: DNOP	96.1	21-129	%Rec	1	10/18/2022 11:34:27 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 10:25:08 PM
Surr: BFB	85.0	37.7-212	%Rec	1	10/17/2022 10:25:08 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/17/2022 10:25:08 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 10:25:08 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 10:25:08 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/17/2022 10:25:08 PM
Surr: 4-Bromofluorobenzene	92.6	70-130	%Rec	1	10/17/2022 10:25:08 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/18/2022 1:06:25 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-107 4'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 2:15:00 PM

 Lab ID:
 2210780-016
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/18/2022 11:44:58 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/18/2022 11:44:58 PM
Surr: DNOP	98.6	21-129	%Rec	1	10/18/2022 11:44:58 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 10:48:43 PM
Surr: BFB	86.0	37.7-212	%Rec	1	10/17/2022 10:48:43 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/17/2022 10:48:43 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 10:48:43 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 10:48:43 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/17/2022 10:48:43 PM
Surr: 4-Bromofluorobenzene	93.6	70-130	%Rec	1	10/17/2022 10:48:43 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/18/2022 1:18:45 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-110 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 2:20:00 PM

 Lab ID:
 2210780-017
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: mb				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/18/2022 11:55:29 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/18/2022 11:55:29 PM
Surr: DNOP	94.1	21-129	%Rec	1	10/18/2022 11:55:29 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 11:12:11 PM
Surr: BFB	87.0	37.7-212	%Rec	1	10/17/2022 11:12:11 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/17/2022 11:12:11 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 11:12:11 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 11:12:11 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/17/2022 11:12:11 PM
Surr: 4-Bromofluorobenzene	95.3	70-130	%Rec	1	10/17/2022 11:12:11 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/18/2022 1:31:06 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-111 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 2:25:00 PM

 Lab ID:
 2210780-018
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/19/2022 12:06:02 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/19/2022 12:06:02 AM
Surr: DNOP	88.3	21-129	%Rec	1	10/19/2022 12:06:02 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 11:35:40 PM
Surr: BFB	88.2	37.7-212	%Rec	1	10/17/2022 11:35:40 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/17/2022 11:35:40 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 11:35:40 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 11:35:40 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/17/2022 11:35:40 PM
Surr: 4-Bromofluorobenzene	95.3	70-130	%Rec	1	10/17/2022 11:35:40 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/18/2022 1:43:26 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-112 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 2:30:00 PM

 Lab ID:
 2210780-019
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/19/2022 12:16:34 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/19/2022 12:16:34 AM
Surr: DNOP	98.2	21-129	%Rec	1	10/19/2022 12:16:34 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/17/2022 11:59:16 PM
Surr: BFB	86.2	37.7-212	%Rec	1	10/17/2022 11:59:16 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/17/2022 11:59:16 PM
Toluene	ND	0.049	mg/Kg	1	10/17/2022 11:59:16 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/17/2022 11:59:16 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/17/2022 11:59:16 PM
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	10/17/2022 11:59:16 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	61	mg/Kg	20	10/18/2022 1:55:47 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-113 2'

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 2:35:00 PM

 Lab ID:
 2210780-020
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: mb				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/19/2022 12:27:05 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/19/2022 12:27:05 AM
Surr: DNOP	101	21-129	%Rec	1	10/19/2022 12:27:05 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/18/2022 12:22:40 AM
Surr: BFB	86.5	37.7-212	%Rec	1	10/18/2022 12:22:40 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/18/2022 12:22:40 AM
Toluene	ND	0.048	mg/Kg	1	10/18/2022 12:22:40 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/18/2022 12:22:40 AM
Xylenes, Total	ND	0.097	mg/Kg	1	10/18/2022 12:22:40 AM
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	1	10/18/2022 12:22:40 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/18/2022 2:32:49 AM

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

Qualifiers:

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

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Date Reported: 10/24/2022

Hall Environmental Analysis Laboratory, Inc.

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

 Project:
 Papas Fritas 27 CTB 1
 Collection Date: 10/13/2022 2:45:00 PM

 Lab ID:
 2210780-021
 Matrix: SOIL
 Received Date: 10/15/2022 8:40:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/19/2022 11:50:30 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/19/2022 11:50:30 AM
Surr: DNOP	97.4	21-129	%Rec	1	10/19/2022 11:50:30 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/18/2022 11:42:00 AM
Surr: BFB	95.3	37.7-212	%Rec	1	10/18/2022 11:42:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/18/2022 11:42:00 AM
Toluene	ND	0.050	mg/Kg	1	10/18/2022 11:42:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	10/18/2022 11:42:00 AM
Xylenes, Total	ND	0.10	mg/Kg	1	10/18/2022 11:42:00 AM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	10/18/2022 11:42:00 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	10/18/2022 8:04:53 PM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2210780 24-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: MB-70880 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70880 RunNo: 91872

Prep Date: 10/17/2022 Analysis Date: 10/17/2022 SeqNo: 3294593 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-70880 TestCode: EPA Method 300.0: Anions SampType: Ics

Client ID: LCSS Batch ID: 70880 RunNo: 91872

Prep Date: 10/17/2022 Analysis Date: 10/17/2022 SeqNo: 3294594 Units: mg/Kg

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

Chloride 14 1.5 15.00 93.3 110

Sample ID: MB-70881 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70881 RunNo: 91844

Analysis Date: 10/17/2022 Prep Date: 10/17/2022 SeqNo: 3294715 Units: mg/Kg

Result POI SPK value SPK Ref Val %REC %RPD **RPDLimit** Qual Analyte I owl imit HighLimit

Chloride ND

Sample ID: LCS-70881 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70881 RunNo: 91844

Prep Date: Analysis Date: 10/17/2022 SeqNo: 3294716 10/17/2022 Units: mg/Kg

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

Chloride 14 1.5 15.00 95.2 90

Sample ID: MB-70907

SampType: mblk Client ID: Batch ID: 70907 RunNo: 91893 PRS

Prep Date: 10/18/2022 Analysis Date: 10/18/2022 SeqNo: 3295883 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-70907 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70907 RunNo: 91893

Prep Date: 10/18/2022 Analysis Date: 10/18/2022 SeqNo: 3295884 Units: mg/Kg

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

Chloride 14 1.5

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix interference

Analyte detected in the associated Method Blank

TestCode: EPA Method 300.0: Anions

Estimated value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 22 of 28

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210780**

24-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: LCS-70879 SampType: LCS				TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 70879				RunNo: 91878						
Prep Date: 10/17/2022 Analysis Date: 10/18/2022				SeqNo: 3294924			Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	6.0		5.000		121	21	129				

Sample ID: LCSD-7	SampType	e: LCSD	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS02	Batch ID	: 70879	F	RunNo: 9	1878					
Prep Date: 10/17/2	Analysis Date	: 10/18/2022	;	SeqNo: 3	294925	Units: %Rec	:			
Analyte	Result F	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	5.7	5.000	-	113	21	129	0	0		

Sample ID: MB-70879	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 70879	RunNo: 91878		
Prep Date: 10/17/20	22 Analysis Date: 10/18/2022	SeqNo: 3294926	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Surr: DNOP	14 10.00	1/12 21	120	9

Sample ID: LCS-70858	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch	ID: 708	358	F	RunNo: 9	1878				
Prep Date: 10/17/2022	Analysis D	ate: 10	/18/2022	SeqNo: 3295724			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	68	15	50.00	0	135	64.4	127			S
Surr: DNOP	7.2		5.000		143	21	129			S

Sample ID: MB-70858	SampT	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch	n ID: 708	358	F	RunNo: 91	1878				
Prep Date: 10/17/2022	Analysis D	oate: 10	/18/2022	5	SeqNo: 32	295728	95728 Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		115	21	129			

Sample ID:	2210780-001AMS	SampT	ype: MS	3	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID:	BES22-86 2'	Batch	Batch ID: 70858 RunNo: 91878										
Prep Date:	10/17/2022	Analysis D	oate: 10	/18/2022	SeqNo: 3296140			Units: mg/Kg					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range O	rganics (DRO)	43	14	45.96	0	93.6	36.1	154					
Surr: DNOP		4.5		4.596		98.9	21	129					

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210780**

24-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: 2210780-001AMSI	Samp1	SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: BES22-86 2'	Batcl	h ID: 70 8	358	F	RunNo: 9	1878					
Prep Date: 10/17/2022	Analysis D	Date: 10	/18/2022	;	SeqNo: 32	296141	Units: mg/k	ζg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	45	14	45.13	0	99.0	36.1	154	3.78	33.9		
Surr: DNOP	4.6		4.513		103	21	129	0	0		
Sample ID: MB-70909	ample ID: MB-70909 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID: PBS	Batcl	h ID: 70 9	909	F	RunNo: 9	1929					
Prep Date: 10/18/2022	Analysis D	Date: 10	/19/2022	;	SeqNo: 32	297767	Units: mg/k	ζg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	15									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	10		10.00		102	21	129				
Sample ID: LCS-70909	SampT	Гуре: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics		
Client ID: LCSS	Batcl	h ID: 70 9	909	F	RunNo: 9	1929					
Prep Date: 10/18/2022	Analysis D	Date: 10	/19/2022	;	SeqNo: 32	297768	Units: mg/k	ζg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	52	15	50.00	0	105	64.4	127				
Surr: DNOP	5.1		5.000		102	21	129				

Qualifiers:

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

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2210780 24-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: mb-70851	SampType: MBL	K	Tes	tCode: EF	A Method	8015D: Gasol	ine Range		
Client ID: PBS	Batch ID: 7085	1	F	RunNo: 9 1	849				
Prep Date: 10/15/2022	Analysis Date: 10/1	7/2022	9	SeqNo: 32	293599	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0								

Sample ID: Ics-70851

Surr: BFB

Surr: BFB

Surr: BFB 840 1000 83.9 37.7 212

1000

986.2

SampType: LCS

1800

1900

Client ID: LCSS Batch ID: 70851 RunNo: 91849 Analysis Date: 10/17/2022 Prep Date: 10/15/2022 SeqNo: 3293600 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC I owl imit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 25.00 99.3 72.3 137

185

189

TestCode: EPA Method 8015D: Gasoline Range

37.7

37.7

212

212

Sample ID: 2210780-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: BES22-86 2' Batch ID: 70851 RunNo: 91849 Prep Date: 10/15/2022 Analysis Date: 10/17/2022 SeqNo: 3293602 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQI LowLimit HighLimit Qual Gasoline Range Organics (GRO) 24 4.9 24.65 98.8 70 130

Sample ID: 2210780-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Batch ID: 70851 Client ID: BES22-86 2' RunNo: 91849 Prep Date: 10/15/2022 Analysis Date: 10/17/2022 SeqNo: 3293603 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23 4.9 93.9 70 130 20 24.63 5.25 Surr: BFB 1800 985.2 186 37.7 212 0 0

Sample ID: Ics-70872 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 70872 RunNo: 91908 Prep Date: Analysis Date: 10/18/2022 SeqNo: 3296480 10/17/2022 Units: mg/Kg Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 20 5.0 25.00 0 80.3 72.3 137 Surr: BFB 2000 1000 203 37.7 212

Sample ID: mb-70872 TestCode: EPA Method 8015D: Gasoline Range SampType: MBLK Client ID: **PBS** Batch ID: 70872 RunNo: 91908 Prep Date: 10/17/2022 Analysis Date: 10/18/2022 SeqNo: 3296481 Units: mg/Kg SPK value SPK Ref Val HighLimit %RPD **RPDLimit** Analyte Result PQL %REC LowLimit Qual

Qualifiers:

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210780**

24-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Gasoline Range Organics (GRO)

Sample ID: mb-70872	SampT	уре: мв	LK	Tes	tCode: EF	PA Method	8015D: Gasol	line Range	1	
Client ID: PBS	Batch	1D: 70 8	372	F	tunNo: 9 1	1908				
Prep Date: 10/17/2022	Analysis D	ate: 10	/18/2022	8	SeqNo: 32	296481	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	980		1000		97.6	37.7	212			

Sample ID: 2210780-021ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range WES22-09 1' Client ID: Batch ID: 70872 RunNo: 91908 Prep Date: 10/17/2022 Analysis Date: 10/18/2022 SeqNo: 3296483 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

24.85

Surr: BFB 2100 994.0 211 37.7 212 Sample ID: 2210780-021amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: WES22-09 1' Batch ID: 70872 RunNo: 91908 Prep Date: 10/17/2022 Analysis Date: 10/18/2022 SeqNo: 3296484 Units: mg/Kg

86.4

70

%RPD Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Analyte Gasoline Range Organics (GRO) 22 5.0 24.78 87.1 70 130 0.486 20 Surr: BFB 2100 991.1 212 0 0 S 214 37.7

Qualifiers:

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210780**

24-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: mb-70851	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batch	n ID: 70 8	351	F	RunNo: 9	1849				
Prep Date: 10/15/2022	Analysis D	Date: 10	/17/2022	9	SeqNo: 32	293645	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		92.2	70	130			

Sample ID: LCS-70851	SampT	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	h ID: 70 8	351	F	RunNo: 9	1849				
Prep Date: 10/15/2022	Analysis D	Date: 10	/17/2022	5	SeqNo: 32	293646	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.8	80	120			
Toluene	0.94	0.050	1.000	0	94.2	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.2	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.7	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.1	70	130			

Sample ID: 2210780-002ams	SampT	ype: MS		Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: BES22-87 2'	Batch	1D: 708	351	F	RunNo: 9 1	1849				
Prep Date: 10/15/2022	Analysis D	ate: 10	/17/2022	5	SeqNo: 32	293649	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	0.9804	0	92.1	68.8	120			
Toluene	0.94	0.049	0.9804	0.01249	94.8	73.6	124			
Ethylbenzene	0.95	0.049	0.9804	0	97.1	72.7	129			
Xylenes, Total	2.9	0.098	2.941	0.01849	96.9	75.7	126			
Surr: 4-Bromofluorobenzene	0.93		0.9804		95.3	70	130			

Sample ID: 2210780-002amsd	SampT	ype: MS	D	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: BES22-87 2'	Batch	n ID: 708	351	F	RunNo: 9 1	1849				
Prep Date: 10/15/2022	Analysis D	Date: 10	/17/2022	5	SeqNo: 32	293650	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	0.9872	0	95.4	68.8	120	4.22	20	
Toluene	0.98	0.049	0.9872	0.01249	98.4	73.6	124	4.33	20	
Ethylbenzene	1.0	0.049	0.9872	0	102	72.7	129	5.49	20	
Xylenes, Total	3.0	0.099	2.962	0.01849	100	75.7	126	3.94	20	
Surr: 4-Bromofluorobenzene	0.96		0.9872		97.6	70	130	0	0	

Qualifiers:

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210780**

24-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB 1

Sample ID: Ics-70872	Samp	Гуре: LC :	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	h ID: 70 8	372	F	RunNo: 9	1908				
Prep Date: 10/17/2022	Analysis [Date: 10	/18/2022	9	SeqNo: 32	296544	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	109	80	120			
Toluene	1.1	0.050	1.000	0	111	80	120			
Ethylbenzene	1.1	0.050	1.000	0	112	80	120			
Xylenes, Total	3.3	0.10	3.000	0	109	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Sample ID: mb-70872	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batch	n ID: 70 8	372	F	RunNo: 91	1908				
Prep Date: 10/17/2022	Analysis D	Date: 10	/18/2022	5	SeqNo: 32	296545	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name:	Vertex Resources Services, Inc.	Work Order Num	per: 2210780		RcptNo: 1	
Received By:	Cheyenne Cason	10/15/2022 8:40:00	AM	Chal		
Completed By:	Cheyenne Cason	10/15/2022 9:24:07	AM	Chul		
Reviewed By:	(A) 10/15/2022					
Chain of Cus	<u>tody</u>					
1. Is Chain of Cu	ustody complete?		Yes 🗹	No 🗌	Not Present	
2. How was the	sample delivered?		Courier			
Log In						
	pt made to cool the sample	es?	Yes 🗸	No 🗆	NA 🗌	
4. Were all samp	oles received at a temperat	ure of >0° C to 6.0°C	Yes 🗹	No 🗌	NA \square	
5. Sample(s) in p	proper container(s)?		Yes 🔽	No 🗌		
6. Sufficient sam	ple volume for indicated te	st(s)?	Yes 🗸	No 🗆		
7. Are samples (except VOA and ONG) pro	perly preserved?	Yes 🗸	No 🔲		
8. Was preserva	tive added to bottles?		Yes	No 🗸	NA 🗆	
9. Received at le	east 1 vial with headspace	<1/4" for AQ VOA?	Yes 🗌	No 🗆	NA 🗹	/
10. Were any sar	mple containers received br	oken?	Yes	No 🗸	# of preserved	
	ork match bottle labels? ancies on chain of custody)		Yes 🔽	No 🗆		unless noted)
12. Are matrices of	correctly identified on Chair	of Custody?	Yes 🗸	No 🗆	Adjusted?	
13. Is it clear wha	t analyses were requested	?	Yes 🗸	No 🗌		1-1-0
	ng times able to be met? ustomer for authorization.)		Yes 🗸	No 🗌	Checked by: W	- 10/15/22
Special Handl	ling (if applicable)					
15. Was client no	otified of all discrepancies v	vith this order?	Yes	No 🗌	NA 🗹	
Person	Notified:	Date				
By Who	om:	Via:	eMail] Phone \square Fax	☐ In Person	
Regard	ling:					
Client I	nstructions:					
16. Additional re	emarks:					
17. Cooler Information Cooler No.		Seal Intact Seal No Not Present	Seal Date	Signed By		

Chain-of-Custody Record	Turn-Around Time:	19.0	650-2		2		- WIN		-
Client: Devon/Vereex	☐ Standard	Rush				ANALL		MALL ENVIRONMENTAL ANALYSTS LABODATODA	MIAL
maga	Project Name:	2.7			NOW.	w haller	Wiron	www hallenvironmental com	
Mailing Address: On File	PEPGS	Erizeds	27 CT8 1	4901	4901 Hawkins NE -	A - BN	Pugue	Albuqueraue, NM 87109	
-	Project #:			Tel	505-345-3975	975	Fax 5	505-345-4107	
.: Bhone #:	22E-0	01417				Ana	lysis R	Analysis Request	
email or Fax#:	Project Manager:	ger:		_	L	10	-	(11)	
QA/QC Package: Comparing the proof of the	Kent	t stallings	shu	O / MRG		PO. S	- (+	nəsdA\t	
Accreditation: Az Compliance	Sampler: C	0		BG	(1	0	17	uəs	
□ NELAC □ Other		M Yes	oN □	/ 0	· † 0	_			
□ EDD (Type)	# of Coolers: \			RO	9 p				
	Cooler Temp(including CF): [,	ncluding CF): [, [-051.1 (°C)	ITM ISD(еџро		(AO		
Date Time Matrix Sample Name	Container Type and #	Preservative Type	HEAL No.	ХЭТВ 108:НЧТ 9Ч 1808	M) 803 (d sHA9	RCRA 8	v) 0928	0758 00 lstoT	
10113 2:00 SOil BESZZ-101 4'		ICE				7	3		
2:05 SESZZ-103 Z1			710	-		-			
Z:10 85522-105 2'		/	510						
2.15 BESZZ-1674'			910						
Z:20 B5522-110 21			710						
2:25 BES22-111 2'			018						
z:30 BESZZ-112 2'			019						
Z:35 BE522-113 Z'			07.0						
2:45 WESZZ-09 1'		1	021						
			Gen 10116th						
Time:	Received by:	Via:	Date Time	Remarks:	CC: CHANCE DIXON	Chance	Dixon	600	
Date: Time: Relinquished by:	Received by:	Via:							
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Client:											A THIRTING	
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			Project Name:	1	1			WANNA P	MAKE I SIS LABO	1	ABORALO	
Mailing Address:	00	Ei'l	Papas	Frieds	2/ 5/ 8 /	46	4901 Hawkins NE -	ins NE			Albuquerque NM 87109	: 12/2
			Project #:			Ī	Tel. 505-345-3975	45-3975		505-3	Eax 505-345-4107	2/20.
Phone #:			22E	22E-01417					Inal	Redu	est	
email or Fax#:			Project Manager:	iger:		_			⊅C		(1)	02:
QA/QC Package:		Vaciability (1977)	Vent		Stanings	1208) NRG	CB,2	SWIS	O¢' 20		uəsq∀	23 PM
		- rever + (I all validation)						50	Ч,		'nυ	
Accreditation:	□ Az Compliance	npliance	u l	CD			280	728	10 ⁵ '		ıəsə	
□ NELAC	□ Other		On Ice:	A Yes	% □		8/s	_	_		314	
☐ EDD (Type)			# of Coolers:	,	1.0 = 0.		əpi		EO1	ΟΛ) w	
			Cooler Temp(including CF):	(including CF): (stic		۱ '۔	-ime	IIIOL	
				c	3	-	ъe		ıa ,	9S)	100	
Date Time	Matrix	Sample Name	Container Type and #	Preservative Type	7210780	-	74.	HA9 ROR	61)F	0728	1610 1	
1:00	5017	BESSZ-86 21	200	POI	100							
10113 1.05	Ŋ	12 18-2258	-	-	200	-				Ĺ		
1:10		BES22-88 21			833							
1215		8 ES22-89 Z'			84							
1:20		BES22-91 2'			Sh							
1:25		BES22-92 2'			CC							1
1:36		n			100							
1:35		B 6522-94 2			008							
1:40		BESZZ-97 2'			600							
1:45		BES22-98 1'			010							
1:50		BESZZ-99 2'			211							
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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

October 27, 2022

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336

FAX:

RE: Papas Fritas 27 CTB1 OrderNo.: 2210837

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 37 sample(s) on 10/18/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-48 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:00:00 PM

 Lab ID:
 2210837-001
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/20/2022 1:30:33 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/20/2022 1:30:33 AM
Surr: DNOP	104	21-129	%Rec	1	10/20/2022 1:30:33 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2022 11:41:00 AM
Surr: BFB	96.4	37.7-212	%Rec	1	10/19/2022 11:41:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 11:41:00 AM
Toluene	ND	0.048	mg/Kg	1	10/19/2022 11:41:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2022 11:41:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	10/19/2022 11:41:00 AM
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	10/19/2022 11:41:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/19/2022 10:33:41 PM

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

Qualifiers:

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

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-49 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:05:00 PM

 Lab ID:
 2210837-002
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 2:10:54 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/20/2022 2:10:54 AM
Surr: DNOP	89.9	21-129	%Rec	1	10/20/2022 2:10:54 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/19/2022 12:40:00 PM
Surr: BFB	95.3	37.7-212	%Rec	1	10/19/2022 12:40:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/19/2022 12:40:00 PM
Toluene	ND	0.050	mg/Kg	1	10/19/2022 12:40:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/19/2022 12:40:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/19/2022 12:40:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/19/2022 12:40:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/19/2022 10:46:06 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-50 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:10:00 PM

 Lab ID:
 2210837-003
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 2:24:21 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 2:24:21 AM
Surr: DNOP	103	21-129	%Rec	1	10/20/2022 2:24:21 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/19/2022 1:39:00 PM
Surr: BFB	92.3	37.7-212	%Rec	1	10/19/2022 1:39:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/19/2022 1:39:00 PM
Toluene	ND	0.046	mg/Kg	1	10/19/2022 1:39:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/19/2022 1:39:00 PM
Xylenes, Total	ND	0.092	mg/Kg	1	10/19/2022 1:39:00 PM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	10/19/2022 1:39:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/19/2022 11:23:19 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-51 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:15:00 PM

 Lab ID:
 2210837-004
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 2:37:41 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/20/2022 2:37:41 AM
Surr: DNOP	105	21-129	%Rec	1	10/20/2022 2:37:41 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2022 1:58:00 PM
Surr: BFB	91.3	37.7-212	%Rec	1	10/19/2022 1:58:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 1:58:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2022 1:58:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2022 1:58:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/19/2022 1:58:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/19/2022 1:58:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 12:25:21 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
 - Reporting Limit Page 4 of 44

Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-52 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:20:00 PM

 Lab ID:
 2210837-005
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 2:51:04 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/20/2022 2:51:04 AM
Surr: DNOP	105	21-129	%Rec	1	10/20/2022 2:51:04 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2022 2:18:00 PM
Surr: BFB	97.0	37.7-212	%Rec	1	10/19/2022 2:18:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 2:18:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2022 2:18:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2022 2:18:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/19/2022 2:18:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/19/2022 2:18:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 12:37:45 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-53 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:25:00 PM

 Lab ID:
 2210837-006
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/20/2022 3:04:18 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/20/2022 3:04:18 AM
Surr: DNOP	105	21-129	%Rec	1	10/20/2022 3:04:18 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2022 2:38:00 PM
Surr: BFB	95.2	37.7-212	%Rec	1	10/19/2022 2:38:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 2:38:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2022 2:38:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2022 2:38:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/19/2022 2:38:00 PM
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	10/19/2022 2:38:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 12:50:10 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-54 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:30:00 PM

 Lab ID:
 2210837-007
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/20/2022 3:17:38 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/20/2022 3:17:38 AM
Surr: DNOP	103	21-129	%Rec	1	10/20/2022 3:17:38 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/19/2022 2:57:00 PM
Surr: BFB	96.5	37.7-212	%Rec	1	10/19/2022 2:57:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 2:57:00 PM
Toluene	ND	0.049	mg/Kg	1	10/19/2022 2:57:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/19/2022 2:57:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/19/2022 2:57:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/19/2022 2:57:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 1:02:34 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order **2210837**Date Reported: **10/27/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-55 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:35:00 PM

 Lab ID:
 2210837-008
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/20/2022 3:30:56 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/20/2022 3:30:56 AM
Surr: DNOP	100	21-129	%Rec	1	10/20/2022 3:30:56 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2022 3:17:00 PM
Surr: BFB	92.1	37.7-212	%Rec	1	10/19/2022 3:17:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 3:17:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2022 3:17:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2022 3:17:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/19/2022 3:17:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/19/2022 3:17:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 1:14:59 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-56 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:40:00 PM

 Lab ID:
 2210837-009
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 3:44:10 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/20/2022 3:44:10 AM
Surr: DNOP	102	21-129	%Rec	1	10/20/2022 3:44:10 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/19/2022 3:37:00 PM
Surr: BFB	98.6	37.7-212	%Rec	1	10/19/2022 3:37:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/19/2022 3:37:00 PM
Toluene	ND	0.046	mg/Kg	1	10/19/2022 3:37:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/19/2022 3:37:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/19/2022 3:37:00 PM
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	10/19/2022 3:37:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 1:27:24 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-57 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:45:00 PM

 Lab ID:
 2210837-010
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 3:57:27 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 3:57:27 AM
Surr: DNOP	102	21-129	%Rec	1	10/20/2022 3:57:27 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/19/2022 3:57:00 PM
Surr: BFB	97.6	37.7-212	%Rec	1	10/19/2022 3:57:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/19/2022 3:57:00 PM
Toluene	ND	0.050	mg/Kg	1	10/19/2022 3:57:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/19/2022 3:57:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/19/2022 3:57:00 PM
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	10/19/2022 3:57:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 1:39:48 AM

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

Qualifiers:

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

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-58 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:50:00 PM

 Lab ID:
 2210837-011
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/20/2022 4:10:33 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/20/2022 4:10:33 AM
Surr: DNOP	104	21-129	%Rec	1	10/20/2022 4:10:33 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/19/2022 4:36:00 PM
Surr: BFB	90.9	37.7-212	%Rec	1	10/19/2022 4:36:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/19/2022 4:36:00 PM
Toluene	ND	0.047	mg/Kg	1	10/19/2022 4:36:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/19/2022 4:36:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/19/2022 4:36:00 PM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	10/19/2022 4:36:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 1:52:12 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-59 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 12:55:00 PM

 Lab ID:
 2210837-012
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/20/2022 4:23:50 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/20/2022 4:23:50 AM
Surr: DNOP	105	21-129	%Rec	1	10/20/2022 4:23:50 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/19/2022 4:55:00 PM
Surr: BFB	94.6	37.7-212	%Rec	1	10/19/2022 4:55:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/19/2022 4:55:00 PM
Toluene	ND	0.046	mg/Kg	1	10/19/2022 4:55:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/19/2022 4:55:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/19/2022 4:55:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/19/2022 4:55:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 2:29:24 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-60 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 1:00:00 PM

 Lab ID:
 2210837-013
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 4:36:56 AM
Motor Oil Range Organics (MRO)	49	47	mg/Kg	1	10/20/2022 4:36:56 AM
Surr: DNOP	104	21-129	%Rec	1	10/20/2022 4:36:56 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2022 5:15:00 PM
Surr: BFB	94.3	37.7-212	%Rec	1	10/19/2022 5:15:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 5:15:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2022 5:15:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2022 5:15:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/19/2022 5:15:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/19/2022 5:15:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 2:41:49 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-61 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 1:05:00 PM

 Lab ID:
 2210837-014
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 4:50:05 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/20/2022 4:50:05 AM
Surr: DNOP	105	21-129	%Rec	1	10/20/2022 4:50:05 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2022 5:34:00 PM
Surr: BFB	92.8	37.7-212	%Rec	1	10/19/2022 5:34:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 5:34:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2022 5:34:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2022 5:34:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/19/2022 5:34:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	10/19/2022 5:34:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 2:54:13 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-62 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 1:10:00 PM

 Lab ID:
 2210837-015
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 5:03:11 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 5:03:11 AM
Surr: DNOP	98.7	21-129	%Rec	1	10/20/2022 5:03:11 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/19/2022 5:54:00 PM
Surr: BFB	97.3	37.7-212	%Rec	1	10/19/2022 5:54:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/19/2022 5:54:00 PM
Toluene	ND	0.046	mg/Kg	1	10/19/2022 5:54:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/19/2022 5:54:00 PM
Xylenes, Total	ND	0.092	mg/Kg	1	10/19/2022 5:54:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/19/2022 5:54:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 3:06:37 AM

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

Qualifiers:

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

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-63 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 1:15:00 PM

 Lab ID:
 2210837-016
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/20/2022 5:16:14 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/20/2022 5:16:14 AM
Surr: DNOP	102	21-129	%Rec	1	10/20/2022 5:16:14 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/19/2022 6:14:00 PM
Surr: BFB	92.3	37.7-212	%Rec	1	10/19/2022 6:14:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 6:14:00 PM
Toluene	ND	0.049	mg/Kg	1	10/19/2022 6:14:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/19/2022 6:14:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/19/2022 6:14:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/19/2022 6:14:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 3:19:02 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- L Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-64 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 1:20:00 PM

 Lab ID:
 2210837-017
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 5:29:29 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 5:29:29 AM
Surr: DNOP	106	21-129	%Rec	1	10/20/2022 5:29:29 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/19/2022 6:34:00 PM
Surr: BFB	95.8	37.7-212	%Rec	1	10/19/2022 6:34:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 6:34:00 PM
Toluene	ND	0.047	mg/Kg	1	10/19/2022 6:34:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/19/2022 6:34:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/19/2022 6:34:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/19/2022 6:34:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 3:31:26 AM

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

Qualifiers:

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

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-66 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 1:25:00 PM

 Lab ID:
 2210837-018
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 5:42:29 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/20/2022 5:42:29 AM
Surr: DNOP	105	21-129	%Rec	1	10/20/2022 5:42:29 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/19/2022 6:53:00 PM
Surr: BFB	97.8	37.7-212	%Rec	1	10/19/2022 6:53:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/19/2022 6:53:00 PM
Toluene	ND	0.049	mg/Kg	1	10/19/2022 6:53:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/19/2022 6:53:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/19/2022 6:53:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/19/2022 6:53:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 3:43:50 AM

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

Qualifiers:

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

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-67 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 1:30:00 PM

 Lab ID:
 2210837-019
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 5:55:31 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/20/2022 5:55:31 AM
Surr: DNOP	93.0	21-129	%Rec	1	10/20/2022 5:55:31 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2022 7:13:00 PM
Surr: BFB	97.4	37.7-212	%Rec	1	10/19/2022 7:13:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 7:13:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2022 7:13:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2022 7:13:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/19/2022 7:13:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/19/2022 7:13:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/20/2022 3:56:15 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-68 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 1:35:00 PM

 Lab ID:
 2210837-020
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 6:08:17 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/20/2022 6:08:17 AM
Surr: DNOP	93.0	21-129	%Rec	1	10/20/2022 6:08:17 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/19/2022 7:33:00 PM
Surr: BFB	87.6	37.7-212	%Rec	1	10/19/2022 7:33:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/19/2022 7:33:00 PM
Toluene	ND	0.046	mg/Kg	1	10/19/2022 7:33:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/19/2022 7:33:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/19/2022 7:33:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	10/19/2022 7:33:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	59	mg/Kg	20	10/20/2022 4:08:39 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-69 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 1:40:00 PM

 Lab ID:
 2210837-021
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: mb				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 12:54:25 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 12:54:25 AM
Surr: DNOP	95.7	21-129	%Rec	1	10/20/2022 12:54:25 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/19/2022 9:30:00 PM
Surr: BFB	92.3	37.7-212	%Rec	1	10/19/2022 9:30:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/19/2022 9:30:00 PM
Toluene	ND	0.047	mg/Kg	1	10/19/2022 9:30:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/19/2022 9:30:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/19/2022 9:30:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/19/2022 9:30:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	61	mg/Kg	20	10/20/2022 9:14:42 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-70 2'

Project: Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:00:00 AM

 Lab ID: 2210837-022
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: mb				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 2:05:52 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/20/2022 2:05:52 AM
Surr: DNOP	96.8	21-129	%Rec	1	10/20/2022 2:05:52 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/19/2022 10:29:00 PM
Surr: BFB	96.9	37.7-212	%Rec	1	10/19/2022 10:29:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/19/2022 10:29:00 PM
Toluene	ND	0.048	mg/Kg	1	10/19/2022 10:29:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/19/2022 10:29:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/19/2022 10:29:00 PM
Surr: 4-Bromofluorobenzene	112	70-130	%Rec	1	10/19/2022 10:29:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 9:51:44 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-71 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:05:00 AM

 Lab ID:
 2210837-023
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: mb				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/20/2022 2:29:39 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/20/2022 2:29:39 AM
Surr: DNOP	91.4	21-129	%Rec	1	10/20/2022 2:29:39 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/19/2022 11:28:00 PM
Surr: BFB	94.4	37.7-212	%Rec	1	10/19/2022 11:28:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/19/2022 11:28:00 PM
Toluene	ND	0.050	mg/Kg	1	10/19/2022 11:28:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/19/2022 11:28:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/19/2022 11:28:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/19/2022 11:28:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 10:53:25 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-72 2'

Project: Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:10:00 AM

 Lab ID: 2210837-024
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: mb				
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/20/2022 2:53:25 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	10/20/2022 2:53:25 AM
Surr: DNOP	97.0	21-129	%Rec	1	10/20/2022 2:53:25 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/19/2022 11:48:00 PM
Surr: BFB	93.6	37.7-212	%Rec	1	10/19/2022 11:48:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/19/2022 11:48:00 PM
Toluene	ND	0.047	mg/Kg	1	10/19/2022 11:48:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/19/2022 11:48:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/19/2022 11:48:00 PM
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	10/19/2022 11:48:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 11:05:46 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-73 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:15:00 AM

 Lab ID:
 2210837-025
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: mb				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 3:17:08 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 3:17:08 AM
Surr: DNOP	97.2	21-129	%Rec	1	10/20/2022 3:17:08 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/20/2022 12:08:00 AM
Surr: BFB	103	37.7-212	%Rec	1	10/20/2022 12:08:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/20/2022 12:08:00 AM
Toluene	ND	0.047	mg/Kg	1	10/20/2022 12:08:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/20/2022 12:08:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	10/20/2022 12:08:00 AM
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	10/20/2022 12:08:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 11:18:07 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-74 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:20:00 AM

 Lab ID:
 2210837-026
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: mb				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 3:40:51 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/20/2022 3:40:51 AM
Surr: DNOP	97.9	21-129	%Rec	1	10/20/2022 3:40:51 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/20/2022 12:27:00 AM
Surr: BFB	92.2	37.7-212	%Rec	1	10/20/2022 12:27:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/20/2022 12:27:00 AM
Toluene	ND	0.048	mg/Kg	1	10/20/2022 12:27:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/20/2022 12:27:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	10/20/2022 12:27:00 AM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	10/20/2022 12:27:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 11:30:28 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-75 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:25:00 AM

 Lab ID:
 2210837-027
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 4:04:33 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/20/2022 4:04:33 AM
Surr: DNOP	99.3	21-129	%Rec	1	10/20/2022 4:04:33 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/20/2022 12:47:00 AM
Surr: BFB	94.7	37.7-212	%Rec	1	10/20/2022 12:47:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/20/2022 12:47:00 AM
Toluene	ND	0.047	mg/Kg	1	10/20/2022 12:47:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/20/2022 12:47:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	10/20/2022 12:47:00 AM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/20/2022 12:47:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 11:42:48 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-76 2'

Project: Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:30:00 AM

 Lab ID: 2210837-028
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 4:28:16 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 4:28:16 AM
Surr: DNOP	96.5	21-129	%Rec	1	10/20/2022 4:28:16 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/20/2022 1:07:00 AM
Surr: BFB	94.6	37.7-212	%Rec	1	10/20/2022 1:07:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/20/2022 1:07:00 AM
Toluene	ND	0.047	mg/Kg	1	10/20/2022 1:07:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/20/2022 1:07:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	10/20/2022 1:07:00 AM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	10/20/2022 1:07:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 11:55:08 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-77 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:35:00 AM

 Lab ID:
 2210837-029
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/20/2022 4:51:55 AM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	10/20/2022 4:51:55 AM
Surr: DNOP	96.9	21-129	%Rec	1	10/20/2022 4:51:55 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/20/2022 1:26:00 AM
Surr: BFB	92.4	37.7-212	%Rec	1	10/20/2022 1:26:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/20/2022 1:26:00 AM
Toluene	ND	0.049	mg/Kg	1	10/20/2022 1:26:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/20/2022 1:26:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	10/20/2022 1:26:00 AM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/20/2022 1:26:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 12:07:29 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-78 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:40:00 AM

 Lab ID:
 2210837-030
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 5:15:31 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/20/2022 5:15:31 AM
Surr: DNOP	100	21-129	%Rec	1	10/20/2022 5:15:31 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/20/2022 1:46:00 AM
Surr: BFB	101	37.7-212	%Rec	1	10/20/2022 1:46:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/20/2022 1:46:00 AM
Toluene	ND	0.047	mg/Kg	1	10/20/2022 1:46:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/20/2022 1:46:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	10/20/2022 1:46:00 AM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/20/2022 1:46:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 12:19:50 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-79 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:45:00 AM

 Lab ID:
 2210837-031
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/20/2022 5:39:09 AM
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	10/20/2022 5:39:09 AM
Surr: DNOP	100	21-129	%Rec	1	10/20/2022 5:39:09 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/20/2022 2:25:00 AM
Surr: BFB	92.6	37.7-212	%Rec	1	10/20/2022 2:25:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/20/2022 2:25:00 AM
Toluene	ND	0.047	mg/Kg	1	10/20/2022 2:25:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/20/2022 2:25:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	10/20/2022 2:25:00 AM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	10/20/2022 2:25:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 12:32:11 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-80 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:50:00 AM

 Lab ID:
 2210837-032
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 6:02:46 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 6:02:46 AM
Surr: DNOP	95.6	21-129	%Rec	1	10/20/2022 6:02:46 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/20/2022 2:45:00 AM
Surr: BFB	95.3	37.7-212	%Rec	1	10/20/2022 2:45:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/20/2022 2:45:00 AM
Toluene	ND	0.046	mg/Kg	1	10/20/2022 2:45:00 AM
Ethylbenzene	ND	0.046	mg/Kg	1	10/20/2022 2:45:00 AM
Xylenes, Total	ND	0.092	mg/Kg	1	10/20/2022 2:45:00 AM
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	10/20/2022 2:45:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 12:44:32 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-81 2'

Project: Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 9:55:00 AM

 Lab ID: 2210837-033
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/20/2022 6:26:21 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/20/2022 6:26:21 AM
Surr: DNOP	100	21-129	%Rec	1	10/20/2022 6:26:21 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/20/2022 3:05:00 AM
Surr: BFB	97.7	37.7-212	%Rec	1	10/20/2022 3:05:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/20/2022 3:05:00 AM
Toluene	ND	0.048	mg/Kg	1	10/20/2022 3:05:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/20/2022 3:05:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	10/20/2022 3:05:00 AM
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	10/20/2022 3:05:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	61	mg/Kg	20	10/20/2022 1:21:33 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-82 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 10:00:00 AM

 Lab ID:
 2210837-034
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/20/2022 6:49:56 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	10/20/2022 6:49:56 AM
Surr: DNOP	92.1	21-129	%Rec	1	10/20/2022 6:49:56 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/20/2022 3:24:00 AM
Surr: BFB	95.0	37.7-212	%Rec	1	10/20/2022 3:24:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/20/2022 3:24:00 AM
Toluene	ND	0.048	mg/Kg	1	10/20/2022 3:24:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/20/2022 3:24:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	10/20/2022 3:24:00 AM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	10/20/2022 3:24:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 1:33:53 PM

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-83 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 10:05:00 AM

 Lab ID:
 2210837-035
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 7:13:29 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/20/2022 7:13:29 AM
Surr: DNOP	100	21-129	%Rec	1	10/20/2022 7:13:29 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/20/2022 3:44:00 AM
Surr: BFB	94.1	37.7-212	%Rec	1	10/20/2022 3:44:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/20/2022 3:44:00 AM
Toluene	ND	0.049	mg/Kg	1	10/20/2022 3:44:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/20/2022 3:44:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	10/20/2022 3:44:00 AM
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	10/20/2022 3:44:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 1:46:13 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-84 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 10:10:00 AM

 Lab ID:
 2210837-036
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 7:37:05 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 7:37:05 AM
Surr: DNOP	101	21-129	%Rec	1	10/20/2022 7:37:05 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/20/2022 4:04:00 AM
Surr: BFB	94.2	37.7-212	%Rec	1	10/20/2022 4:04:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/20/2022 4:04:00 AM
Toluene	ND	0.048	mg/Kg	1	10/20/2022 4:04:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/20/2022 4:04:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	10/20/2022 4:04:00 AM
Surr: 4-Bromofluorobenzene	111	70-130	%Rec	1	10/20/2022 4:04:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	10/20/2022 1:58:34 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/27/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-85 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/14/2022 10:15:00 AM

 Lab ID:
 2210837-037
 Matrix: SOIL
 Received Date: 10/18/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/20/2022 8:00:40 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/20/2022 8:00:40 AM
Surr: DNOP	102	21-129	%Rec	1	10/20/2022 8:00:40 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/20/2022 4:23:00 AM
Surr: BFB	95.8	37.7-212	%Rec	1	10/20/2022 4:23:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	10/20/2022 4:23:00 AM
Toluene	ND	0.047	mg/Kg	1	10/20/2022 4:23:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	10/20/2022 4:23:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	10/20/2022 4:23:00 AM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/20/2022 4:23:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	59	mg/Kg	20	10/20/2022 2:10:55 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210837 27-Oct-22**

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: MB-70935 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70935 RunNo: 91941

Prep Date: 10/19/2022 Analysis Date: 10/19/2022 SeqNo: 3298304 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: MB-70945 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70945 RunNo: 91958

Prep Date: 10/20/2022 Analysis Date: 10/20/2022 SeqNo: 3299494 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-70945 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70945 RunNo: 91958

Prep Date: 10/20/2022 Analysis Date: 10/20/2022 SeqNo: 3299495 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 96.3 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

49

5.3

15

49.41

4.941

WO#: **2210837**

27-Oct-22

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: MB-70928	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: PBS	Batch ID:	70928	R	unNo: 91929						
Prep Date: 10/19/2022	Analysis Date:	10/20/2022	Se	eqNo: 3297826	Units: mg/Kg					
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5	10.00		94.9 21	129					
Sample ID: LCS-70928	SampType:	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID:	70928	R	unNo: 91929						
Prep Date: 10/19/2022	Analysis Date:	10/20/2022	Se	eqNo: 3297827	Units: mg/Kg					
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	48	15 50.00	0	95.3 64.4	127					
Surr: DNOP	5.1	5.000		103 21	129					
Sample ID: 2210837-001AMS	SampType:	MS	Test	Code: EPA Method	8015M/D: Diesel Ran	ge Organics				
Client ID: BES22-48 2.5'	Batch ID:	70928	R	unNo: 91929						
Prep Date: 10/19/2022	Analysis Date:	10/20/2022	Se	eqNo: 3297829	Units: mg/Kg					
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %RPD	RPDLimit	Qual			

Sample ID: 2210837-001AMSD	SampT	/pe: MS	SD	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BES22-48 2.5'	Batch	ID: 70	928	R	RunNo: 9	1929				
Prep Date: 10/19/2022	Analysis Da	alysis Date: 10/20/2022 SeqNo: 32				297830	0 Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	14	46.77	0	97.7	36.1	154	7.28	33.9	
Surr: DNOP	5.1		4.677		109	21	129	0	0	

0

99.5

108

36.1

21

154

129

Sample ID: MB-70929	SampT	ype: ME	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	ID: 70 9	929	RunNo: 91900						
Prep Date: 10/19/2022	Analysis D	ate: 10)/20/2022	SeqNo: 3298010			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		89.9	21	129			

Qualifiers:

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

Diesel Range Organics (DRO)

Surr: DNOP

- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2210837 27-Oct-22

WO#:

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: LCS-70929 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 70929 RunNo: 91900

Prep Date: 10/19/2022 Analysis Date: 10/20/2022 SeqNo: 3298011 Units: mg/Kg

Analyte SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 46 15 92.3 64.4 50.00 127 Surr: DNOP 4.6 5.000 92.4 21 129

Sample ID: 2210837-021AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **BES22-69 2.5'** Batch ID: **70929** RunNo: **91900**

Prep Date: 10/19/2022 Analysis Date: 10/20/2022 SeqNo: 3298013 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 47 14 46.51 100 36.1 154 Surr: DNOP 4.8 4.651 102 21 129

Sample ID: 2210837-021AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **BES22-69 2.5'** Batch ID: **70929** RunNo: **91900**

Prep Date: 10/19/2022 Analysis Date: 10/20/2022 SeqNo: 3298014 Units: mg/Kg

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte **PQL** Diesel Range Organics (DRO) 45 14 0 99.1 36.1 2.82 33.9 45.62 154 Surr: DNOP 4.6 4.562 101 129 21 0 0

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2210837

27-Oct-22

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: Ics-70896 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70896 RunNo: 91932

Prep Date: 10/18/2022 Analysis Date: 10/19/2022 SeqNo: 3298039 Units: mg/Kg

Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25.00 23 5.0 91.3 72.3 137

Surr: BFB 2000 1000 202 37.7 212

Sample ID: mb-70896 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PRS Batch ID: 70896 RunNo: 91932

Prep Date: Analysis Date: 10/19/2022 10/18/2022 SeqNo: 3298040 Units: ma/Ka

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

Gasoline Range Organics (GRO) ND 5.0

930 1000 92.6 37.7 212 Surr: BFB

Sample ID: 2210837-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: BES22-48 2.5' Batch ID: 70896 RunNo: 91932

Prep Date: Analysis Date: 10/19/2022 SeqNo: 3298042 10/18/2022 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual 24 70 Gasoline Range Organics (GRO) 48 23.88 99.1 130 S Surr: BFB 2000 955.1 214 37.7 212

Sample ID: 2210837-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BES22-48 2.5' Batch ID: 70896 RunNo: 91932

Prep Date: 10/18/2022 Analysis Date: 10/19/2022 SeqNo: 3298043 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 25 4.8 23.90 n 70 130 6.24 20 105 Surr: BFB 2100 956.0 217 37.7 212 0 S

Sample ID: Ics-70897 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70897 RunNo: 91932

Prep Date: 10/18/2022 Analysis Date: 10/19/2022 SeqNo: 3298063 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Gasoline Range Organics (GRO) 23 5.0 25.00 0 90.4 72.3 137

Surr: BFB 2100 1000 205 37 7 212

Sample ID: MB-70897 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70897 RunNo: 91932

Prep Date: 10/18/2022 Analysis Date: 10/19/2022 SeqNo: 3298064 Units: mg/Kg

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

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210837 27-Oct-22**

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: MB-70897 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70897 RunNo: 91932

Prep Date: 10/18/2022 Analysis Date: 10/19/2022 SeqNo: 3298064 Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 920 1000 92.2 37.7 212

Sample ID: 2210837-021ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BES22-69 2.5'** Batch ID: **70897** RunNo: **91932**

Prep Date: 10/18/2022 Analysis Date: 10/19/2022 SeqNo: 3298066 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 70 Gasoline Range Organics (GRO) 23 4.7 23.56 97.1 130 Surr: BFB 2100 942.5 220 37.7 212 S

Sample ID: 2210837-021amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: **BES22-69 2.5'** Batch ID: **70897** RunNo: **91932**

Prep Date: 10/18/2022 Analysis Date: 10/19/2022 SeqNo: 3298067 Units: mg/Kg

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte **PQL** Gasoline Range Organics (GRO) 24 0 103 70 5.17 20 47 23.50 130 Surr: BFB 2000 212 S 939.8 214 37.7 0 0

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210837**

27-Oct-22

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: Ics-70896	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	n ID: 70 8	896	F	RunNo: 9	1932				
Prep Date: 10/18/2022	Analysis D	oate: 10	/19/2022	SeqNo: 3298093			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	116	80	120			
Toluene	1.1	0.050	1.000	0	115	80	120			
Ethylbenzene	1.1	0.050	1.000	0	115	80	120			
Xylenes, Total	3.4	0.10	3.000	0	113	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	70	130			

Sample ID: mb-70896 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 70896 RunNo: 91932 Prep Date: 10/18/2022 Analysis Date: 10/19/2022 SeqNo: 3298094 Units: mg/Kg %RPD **RPDLimit PQL** SPK value SPK Ref Val %REC LowLimit HighLimit Analyte Result Qual Benzene ND 0.025 ND 0.050 Toluene Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 1.000 107 70 130 Surr: 4-Bromofluorobenzene 1.1

Sample ID: 2210837-002ams	SampT	ype: MS	3	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BES22-49 2.5'	Batch	n ID: 70 8	396	F	RunNo: 9	1932				
Prep Date: 10/18/2022	Analysis D	ate: 10	/19/2022	8	SeqNo: 3	298097	Units: mg/K	.g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	0.9950	0	125	68.8	120			S
Toluene	1.3	0.050	0.9950	0	127	73.6	124			S
Ethylbenzene	1.3	0.050	0.9950	0	126	72.7	129			
Xylenes, Total	3.7	0.10	2.985	0	124	75.7	126			
Surr: 4-Bromofluorobenzene	1.1		0.9950		106	70	130			

Sample ID: 2210837-002ams	d SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BES22-49 2.5'	Batch	n ID: 70 8	896	F	RunNo: 9	1932				
Prep Date: 10/18/2022	Analysis D	ate: 10	/19/2022	SeqNo: 3298098			Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	0.9872	0	125	68.8	120	1.02	20	S
Toluene	1.2	0.049	0.9872	0	125	73.6	124	2.73	20	S
Ethylbenzene	1.2	0.049	0.9872	0	126	72.7	129	1.16	20	
Xylenes, Total	3.7	0.099	2.962	0	123	75.7	126	1.42	20	
Surr: 4-Bromofluorobenzene	1.0		0.9872		105	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210837 27-Oct-22**

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: Ics-70897	Sampl	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 70 8	897	F	RunNo: 9	1932				
Prep Date: 10/18/2022	Analysis [Date: 10)/19/2022	SeqNo: 3298117			Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	120	80	120			S
Toluene	1.2	0.050	1.000	0	120	80	120			
Ethylbenzene	1.2	0.050	1.000	0	119	80	120			
Xylenes, Total	3.5	0.10	3.000	0	118	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	70	130			

Sample ID: MB-70897	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	1D: 70	897	F	RunNo: 9	1932				
Prep Date: 10/18/2022	Analysis D	ate: 10)/19/2022	8	SeqNo: 3	298118	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		105	70	130			

Sample ID: 2210837-022ams	SampT	уре: М	6	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BES22-70 2'	Batch	n ID: 70 8	897	F	RunNo: 9	1932				
Prep Date: 10/18/2022	Analysis D	ate: 10)/19/2022	SeqNo: 3298121			Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.3	0.024	0.9690	0	129	68.8	120			S
Toluene	1.3	0.048	0.9690	0	131	73.6	124			S
Ethylbenzene	1.3	0.048	0.9690	0	129	72.7	129			S
Xylenes, Total	3.7	0.097	2.907	0	128	75.7	126			S
Surr: 4-Bromofluorobenzene	1.1		0.9690		109	70	130			

Sample ID: 2210837-022amsd	SampT	уре: МS	SD.	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BES22-70 2'	Batch	n ID: 70 8	397	F	RunNo: 9	1932				
Prep Date: 10/18/2022	Analysis D	oate: 10	/19/2022	SeqNo: 3298122 Units: mg/Kg				(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.3	0.024	0.9560	0	134	68.8	120	2.49	20	S
Toluene	1.3	0.048	0.9560	0	135	73.6	124	2.09	20	S
Ethylbenzene	1.3	0.048	0.9560	0	135	72.7	129	3.31	20	S
Xylenes, Total	3.8	0.096	2.868	0	134	75.7	126	2.76	20	S
Surr: 4-Bromofluorobenzene	1.0		0.9560		105	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: **Devon Energy** Work Order Number: 2210837 RcptNo: 1 Grandy Salzah Received By: Juan Rojas 10/18/2022 7:30:00 AM Completed By: Sean Livingston 10/18/2022 8:07:11 AM In 10/18/22 Reviewed By: Chain of Custody Yes V 1. Is Chain of Custody complete? Not Present 2 How was the sample delivered? Courier Log In No 🗌 NA 🗍 Was an attempt made to cool the samples? Yes V No L NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No 🗌 Sample(s) in proper container(s)? Yes V 6. Sufficient sample volume for indicated test(s)? Yes V Yes V No 🗌 7. Are samples (except VOA and ONG) properly preserved? Yes 8. Was preservative added to bottles? No V NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No 🗌 NA V Yes U No V 10. Were any sample containers received broken? # of preserved bottles checked Yes 🗸 No 🗌 11. Does paperwork match bottle labels? for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 Yes 🗸 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? Checked by: (10 - (8 - 2 2 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) Yes 15. Was client notified of all discrepancies with this order? No NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Temp °C Cooler No Condition Seal Intact Seal No Seal Date Signed By 1.0 Good

Received by OCD: 12/2/2022 2:02:23 P Page 270 of 379 **ANALYSIS LABORATORY** HALL ENVIRONMENTAL If necessary, samples submitted to Hall Environmental may be subcontracted to offer accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 www.hallenvironmental.com CC: Chance Dixon Analysis Request Total Coliform (Present/Absent) DIRCF RIN DEVON (AOV-ima2) 07S8 (AOV) 09S8 Cire. NO2, PO4, SO4 NO3' Br, Tel. 505-345-3975 RCRA 8 Metals 2 SMI20728 10 0188 yd 2HA9 EDB (Method 504.1) 8081 Pesticides/8082 PCB's Remarks: SD(GRO / DRO / MRO) TMB's (8021) 10/18/12 7/3C 00 0 40.121.0 (°C) Politic | 115 £ 280122 200 904 300 500 500 200 00 500 Time FN. 495 27 CTB 80% 200 HEAL No. 210 10 **%**□ 2-004 Kent scallings Rush
 Ru round Preservative 11410-322 Cooler Temp(including CF): 700 T-Yes Turn-Around Time: Project Manager: SOCION Project Name: Sampler: Gの □ Standard # of Coolers: Type and # Container Received by: Project #: 402 Received by: On Ice: ☐ Level 4 (Full Validation) NS NS 100 2.5 Chain-of-Custody Record 2.5 10/14/12:00/50:11 8 ESZZ-48 Sample Name BES22-49 BESS-59 85525-50 85-22508 8 5522-55 BE522-53 BESC - 56 BES25-57 BES22-54 BES22-52 B 822-51 denn DRVON / VECTEX △ Az Compliance 111 Relinquished by: Relinquished by: Chry □ Other Matrix Sugaring Address: 12:15 2:40 12:55 12:05 01:21 12.20 2.75 12: 35 12:30 2:45 12:50 QA/QC Package: ☐ EDD (Type) Time 7 email or Fax#: Accreditation: 11/11/190 Time: Time: ≥ Standard □ NELAC Phone #: Client: Date 011 Date:

Page 271 of 3 79 Received by OCD: 12/2/2022 2:02:23 PM **ANALYSIS LABORATORY** HALL ENVIRONMENTAL If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 CC: Chance Dixon Direct Bill Davon www.hallenvironmental.com **Analysis Request** Total Coliform (Present/Absent) (AOV-ima2) 07S8 (AOV) 09S8 Br, NO₃, NO2, PO4, SO4 Tel. 505-345-3975 RCRA 8 Metals PAHs by 8310 or 8270SIMS EDB (Method 504.1) 8081 Pesticides/8082 PCB's Remarks: ED(GRO / DRO / MRO) TMB's (8021) OWIET 10/18/22 7/32 ပ္ပ 15 Time HEAL No. 510 Papas Fritas 27 CTB1 510 かづ 250 0 2 520 19/11/22 000 510 020 120 220 510 **%**□ 100-2 Kent Stanings Rush Preservative Cooler Temp(including CF): 11/10-322 ICC □ Yes Turn-Around Time: Via: Project Manager: Project Name: Sampler: C() almer □ Standard # of Coolers: Type and # Received by: Container 462 Project #: Received by On Ice: □ Level 4 (Full Validation) 115 2.5 50 2.5 2.5 NS N Chain-of-Custody Record N N B 5525-68 Sample Name BESCE-60 BES22-67 BES22-70 13-22528 BES25-63 BES22-64 8552-66 BESZ-69 BESSS-71 8 ES 22- 7/2 BES22-61 □/Az Compliance DEVOOR VECTER F:10 all Relinquished by: Relinquished by: □ Other 1,0505:1/1/10 00 Matrix 1:05 Mailing Address: 01:5 21:15 1:30 1:26 1.35 00:6 50:8 1:25 1:46 DA/QC Package: 1:10 ☐ EDD (Type) Time 98 email or Fax#: Accreditation: Time: ≥ Standard □ NELAC Phone #: 10119 Date Date:

Page 272 of 3 79 Received by OCD: 12/2/2022 2:02:23 PM ANALYSIS LABORATORY HALL ENVIRONMENTAL If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 CC: CHANGE DIXON www.hallenvironmental.com Direct 8:11 DONON **Analysis Request** Total Coliform (Present/Absent) (AOV-ima2) 07S8 (AOV) 09S8 Bt' NO3' CI,9E NO2, PO4, SO4 Tel. 505-345-3975 RCRA 8 Metals PAHs by 8310 or 8270SIMS EDB (Method 504.1) 8081 Pesticides/8082 PCB's Remarks: (ORM / ORO / ORO) d2108:H9T MTBE / TMB's (8021) **STEX** 15 5581101 version (S) In/22 (115) 03C Papas Fritas 27 CT81 HEAL No. 035 277 000 550 120 420 250 320 420 022 120 lo Date Date % □ KEUR Stallings 1-DG4 Rush Preservative Cooler Temp(including CF): □ Yes 226-01417 Turn-Around Time: Type Via: Project Manager: Sampler: CO Project Name: □ Standard Type and # # of Coolers: Received by: Container 402 Project #: Received by On Ice: □ Level 4 (Full Validation) 23 Chain-of-Custody Record N N N N N N BES22-84 Sample Name BES22-73 BES 22-75 BES22-78 BES22-82 A 5522-83 B ES22-76 BES22-74 BES22-79 BESS2-80 BES 22-81 BES 22-77 □ Az Compliance Divon / Vertex Relinduished by: Relinquished by: 11.15 GANI □ other 100m Matrix Address: 54.6 9116 05:00 10:00 20:01 10.10 DA/QC Package: 25.6 ☐ EDD (Type) 190 email or Fax#: Accreditation: Time 15 Time: Time: **Standard** □ NELAC Phone #: PINU 10117 Date Date:

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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

October 28, 2022

FAX

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

RE: Papas Fritas 27 CTB1 OrderNo.: 2210A33

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 20 sample(s) on 10/20/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-41 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 8:30:00 AM

 Lab ID:
 2210A33-001
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/24/2022 2:40:08 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/24/2022 2:40:08 PM
Surr: DNOP	98.3	21-129	%Rec	1	10/24/2022 2:40:08 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/21/2022 12:48:41 PM
Surr: BFB	93.9	37.7-212	%Rec	1	10/21/2022 12:48:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/21/2022 12:48:41 PM
Toluene	ND	0.050	mg/Kg	1	10/21/2022 12:48:41 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/21/2022 12:48:41 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/21/2022 12:48:41 PM
Surr: 4-Bromofluorobenzene	95.5	70-130	%Rec	1	10/21/2022 12:48:41 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/23/2022 10:32:12 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

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

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 25

Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-42 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 8:35:00 AM

 Lab ID:
 2210A33-002
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 2:53:37 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/24/2022 2:53:37 PM
Surr: DNOP	101	21-129	%Rec	1	10/24/2022 2:53:37 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/21/2022 3:09:43 PM
Surr: BFB	94.1	37.7-212	%Rec	1	10/21/2022 3:09:43 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 3:09:43 PM
Toluene	ND	0.047	mg/Kg	1	10/21/2022 3:09:43 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/21/2022 3:09:43 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/21/2022 3:09:43 PM
Surr: 4-Bromofluorobenzene	98.8	70-130	%Rec	1	10/21/2022 3:09:43 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/23/2022 10:44:37 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

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

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 25

Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-44 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 8:40:00 AM

 Lab ID:
 2210A33-003
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 3:07:08 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/24/2022 3:07:08 PM
Surr: DNOP	102	21-129	%Rec	1	10/24/2022 3:07:08 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/21/2022 4:20:13 PM
Surr: BFB	91.3	37.7-212	%Rec	1	10/21/2022 4:20:13 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 4:20:13 PM
Toluene	ND	0.047	mg/Kg	1	10/21/2022 4:20:13 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/21/2022 4:20:13 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/21/2022 4:20:13 PM
Surr: 4-Bromofluorobenzene	96.7	70-130	%Rec	1	10/21/2022 4:20:13 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	61	mg/Kg	20	10/23/2022 10:57:02 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

porting Limit Page 3 of 25

Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-08 1

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 8:45:00 AM

 Lab ID:
 2210A33-004
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 3:20:49 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/24/2022 3:20:49 PM
Surr: DNOP	102	21-129	%Rec	1	10/24/2022 3:20:49 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/21/2022 4:43:41 PM
Surr: BFB	91.1	37.7-212	%Rec	1	10/21/2022 4:43:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/21/2022 4:43:41 PM
Toluene	ND	0.047	mg/Kg	1	10/21/2022 4:43:41 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/21/2022 4:43:41 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/21/2022 4:43:41 PM
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	10/21/2022 4:43:41 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/23/2022 11:09:26 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES22-28 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 9:15:00 AM

 Lab ID:
 2210A33-005
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG				Analyst: DGH	
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/24/2022 12:09:17 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/24/2022 12:09:17 PM
Surr: DNOP	99.3	21-129	%Rec	1	10/24/2022 12:09:17 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/21/2022 5:07:03 PM
Surr: BFB	93.0	37.7-212	%Rec	1	10/21/2022 5:07:03 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/21/2022 5:07:03 PM
Toluene	ND	0.046	mg/Kg	1	10/21/2022 5:07:03 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/21/2022 5:07:03 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/21/2022 5:07:03 PM
Surr: 4-Bromofluorobenzene	98.3	70-130	%Rec	1	10/21/2022 5:07:03 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/23/2022 11:21:50 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-29 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 9:20:00 AM

 Lab ID:
 2210A33-006
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/24/2022 12:33:36 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/24/2022 12:33:36 PM
Surr: DNOP	100	21-129	%Rec	1	10/24/2022 12:33:36 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/21/2022 5:30:34 PM
Surr: BFB	92.9	37.7-212	%Rec	1	10/21/2022 5:30:34 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/21/2022 5:30:34 PM
Toluene	ND	0.046	mg/Kg	1	10/21/2022 5:30:34 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/21/2022 5:30:34 PM
Xylenes, Total	ND	0.093	mg/Kg	1	10/21/2022 5:30:34 PM
Surr: 4-Bromofluorobenzene	98.3	70-130	%Rec	1	10/21/2022 5:30:34 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	220	60	mg/Kg	20	10/23/2022 12:24:01 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-30 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 9:25:00 AM

 Lab ID:
 2210A33-007
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				Analyst: DGH	
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/24/2022 12:57:51 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	10/24/2022 12:57:51 PM
Surr: DNOP	103	21-129	%Rec	1	10/24/2022 12:57:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/21/2022 5:54:01 PM
Surr: BFB	89.3	37.7-212	%Rec	1	10/21/2022 5:54:01 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 5:54:01 PM
Toluene	ND	0.049	mg/Kg	1	10/21/2022 5:54:01 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/21/2022 5:54:01 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/21/2022 5:54:01 PM
Surr: 4-Bromofluorobenzene	94.6	70-130	%Rec	1	10/21/2022 5:54:01 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	1600	60	mg/Kg	20	10/23/2022 1:01:15 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-31 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 9:30:00 AM

 Lab ID:
 2210A33-008
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG				Analyst: DGH	
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/24/2022 1:22:10 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/24/2022 1:22:10 PM
Surr: DNOP	107	21-129	%Rec	1	10/24/2022 1:22:10 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/21/2022 6:17:32 PM
Surr: BFB	90.6	37.7-212	%Rec	1	10/21/2022 6:17:32 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 6:17:32 PM
Toluene	ND	0.049	mg/Kg	1	10/21/2022 6:17:32 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/21/2022 6:17:32 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/21/2022 6:17:32 PM
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	1	10/21/2022 6:17:32 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	850	60	mg/Kg	20	10/23/2022 1:38:29 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-11 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 9:35:00 AM

 Lab ID:
 2210A33-009
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 1:46:20 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/24/2022 1:46:20 PM
Surr: DNOP	91.1	21-129	%Rec	1	10/24/2022 1:46:20 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/21/2022 6:41:13 PM
Surr: BFB	87.8	37.7-212	%Rec	1	10/21/2022 6:41:13 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 6:41:13 PM
Toluene	ND	0.049	mg/Kg	1	10/21/2022 6:41:13 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/21/2022 6:41:13 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/21/2022 6:41:13 PM
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	10/21/2022 6:41:13 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	120	60	mg/Kg	20	10/23/2022 1:50:54 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- QL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-15 1'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 9:40:00 AM

 Lab ID:
 2210A33-010
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG		Analyst: DGH			
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/24/2022 2:10:37 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/24/2022 2:10:37 PM
Surr: DNOP	97.3	21-129	%Rec	1	10/24/2022 2:10:37 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/21/2022 7:04:41 PM
Surr: BFB	93.5	37.7-212	%Rec	1	10/21/2022 7:04:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/21/2022 7:04:41 PM
Toluene	ND	0.049	mg/Kg	1	10/21/2022 7:04:41 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/21/2022 7:04:41 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/21/2022 7:04:41 PM
Surr: 4-Bromofluorobenzene	98.9	70-130	%Rec	1	10/21/2022 7:04:41 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	66	60	mg/Kg	20	10/23/2022 2:28:08 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WES22-16 1'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 9:45:00 AM

 Lab ID:
 2210A33-011
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: JME
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/24/2022 11:39:43 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/24/2022 11:39:43 AM
Surr: DNOP	94.4	21-129	%Rec	1	10/24/2022 11:39:43 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/21/2022 7:28:11 PM
Surr: BFB	91.6	37.7-212	%Rec	1	10/21/2022 7:28:11 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 7:28:11 PM
Toluene	ND	0.048	mg/Kg	1	10/21/2022 7:28:11 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/21/2022 7:28:11 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/21/2022 7:28:11 PM
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	10/21/2022 7:28:11 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	130	60	mg/Kg	20	10/23/2022 2:40:33 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-10 1

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 10:55:00 AM

 Lab ID:
 2210A33-012
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG				Analyst: JME	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 12:03:20 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/24/2022 12:03:20 PM
Surr: DNOP	94.1	21-129	%Rec	1	10/24/2022 12:03:20 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/21/2022 8:38:42 PM
Surr: BFB	90.4	37.7-212	%Rec	1	10/21/2022 8:38:42 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/21/2022 8:38:42 PM
Toluene	ND	0.049	mg/Kg	1	10/21/2022 8:38:42 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/21/2022 8:38:42 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/21/2022 8:38:42 PM
Surr: 4-Bromofluorobenzene	95.5	70-130	%Rec	1	10/21/2022 8:38:42 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	760	60	mg/Kg	20	10/23/2022 2:52:57 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-35 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 11:00:00 AM

 Lab ID:
 2210A33-013
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 12:27:01 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/24/2022 12:27:01 PM
Surr: DNOP	92.8	21-129	%Rec	1	10/24/2022 12:27:01 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/21/2022 9:02:14 PM
Surr: BFB	90.2	37.7-212	%Rec	1	10/21/2022 9:02:14 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/21/2022 9:02:14 PM
Toluene	ND	0.046	mg/Kg	1	10/21/2022 9:02:14 PM
Ethylbenzene	ND	0.046	mg/Kg	1	10/21/2022 9:02:14 PM
Xylenes, Total	ND	0.092	mg/Kg	1	10/21/2022 9:02:14 PM
Surr: 4-Bromofluorobenzene	95.6	70-130	%Rec	1	10/21/2022 9:02:14 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/23/2022 3:05:22 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-36 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 11:05:00 AM

 Lab ID:
 2210A33-014
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR				Analyst: JME	
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/24/2022 12:50:42 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/24/2022 12:50:42 PM
Surr: DNOP	95.5	21-129	%Rec	1	10/24/2022 12:50:42 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/21/2022 9:25:53 PM
Surr: BFB	89.9	37.7-212	%Rec	1	10/21/2022 9:25:53 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/21/2022 9:25:53 PM
Toluene	ND	0.049	mg/Kg	1	10/21/2022 9:25:53 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/21/2022 9:25:53 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/21/2022 9:25:53 PM
Surr: 4-Bromofluorobenzene	95.8	70-130	%Rec	1	10/21/2022 9:25:53 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	98	59	mg/Kg	20	10/23/2022 3:17:47 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-37 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 11:10:00 AM

 Lab ID:
 2210A33-015
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 1:14:26 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/24/2022 1:14:26 PM
Surr: DNOP	93.4	21-129	%Rec	1	10/24/2022 1:14:26 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/21/2022 9:49:32 PM
Surr: BFB	90.3	37.7-212	%Rec	1	10/21/2022 9:49:32 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 9:49:32 PM
Toluene	ND	0.048	mg/Kg	1	10/21/2022 9:49:32 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/21/2022 9:49:32 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/21/2022 9:49:32 PM
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	1	10/21/2022 9:49:32 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	390	60	mg/Kg	20	10/23/2022 3:30:12 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BES22-38 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 11:35:00 AM

 Lab ID:
 2210A33-016
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 1:38:12 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/24/2022 1:38:12 PM
Surr: DNOP	94.0	21-129	%Rec	1	10/24/2022 1:38:12 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/21/2022 10:13:11 PM
Surr: BFB	92.5	37.7-212	%Rec	1	10/21/2022 10:13:11 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 10:13:11 PM
Toluene	ND	0.048	mg/Kg	1	10/21/2022 10:13:11 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/21/2022 10:13:11 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/21/2022 10:13:11 PM
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	1	10/21/2022 10:13:11 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/23/2022 3:42:37 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Client Sample ID: WES22-24 1'

Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 1:00:00 PM

 Lab ID:
 2210A33-017
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 15 mg/Kg 1 10/24/2022 2:01:57 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 10/24/2022 2:01:57 PM Surr: DNOP 95.4 21-129 %Rec 1 10/24/2022 2:01:57 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 10/21/2022 10:36:51 PM 4.7 mg/Kg 1 Surr: BFB 90.3 37.7-212 %Rec 1 10/21/2022 10:36:51 PM **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.023 mg/Kg 10/21/2022 10:36:51 PM 1 Toluene ND 0.047 mg/Kg 1 10/21/2022 10:36:51 PM Ethylbenzene ND 0.047 mg/Kg 1 10/21/2022 10:36:51 PM Xylenes, Total ND 0.093 mg/Kg 1 10/21/2022 10:36:51 PM Surr: 4-Bromofluorobenzene 95.0 70-130 %Rec 1 10/21/2022 10:36:51 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 10/23/2022 3:55:01 PM ma/Ka 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

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

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-13 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 1:15:00 PM

 Lab ID:
 2210A33-018
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/24/2022 2:25:40 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/24/2022 2:25:40 PM
Surr: DNOP	93.5	21-129	%Rec	1	10/24/2022 2:25:40 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	10/21/2022 11:00:28 PM
Surr: BFB	92.7	37.7-212	%Rec	1	10/21/2022 11:00:28 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.023	mg/Kg	1	10/21/2022 11:00:28 PM
Toluene	ND	0.047	mg/Kg	1	10/21/2022 11:00:28 PM
Ethylbenzene	ND	0.047	mg/Kg	1	10/21/2022 11:00:28 PM
Xylenes, Total	ND	0.094	mg/Kg	1	10/21/2022 11:00:28 PM
Surr: 4-Bromofluorobenzene	98.5	70-130	%Rec	1	10/21/2022 11:00:28 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/23/2022 4:07:26 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

rting Limit Page 18 of 25

Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-14 2'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 1:20:00 PM

 Lab ID:
 2210A33-019
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 2:49:26 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/24/2022 2:49:26 PM
Surr: DNOP	93.4	21-129	%Rec	1	10/24/2022 2:49:26 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/21/2022 11:24:08 PM
Surr: BFB	90.8	37.7-212	%Rec	1	10/21/2022 11:24:08 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 11:24:08 PM
Toluene	ND	0.049	mg/Kg	1	10/21/2022 11:24:08 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/21/2022 11:24:08 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/21/2022 11:24:08 PM
Surr: 4-Bromofluorobenzene	95.4	70-130	%Rec	1	10/21/2022 11:24:08 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	160	61	mg/Kg	20	10/23/2022 11:34:15 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/28/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WES22-18 1

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/18/2022 1:45:00 PM

 Lab ID:
 2210A33-020
 Matrix: SOIL
 Received Date: 10/20/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/24/2022 3:13:14 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/24/2022 3:13:14 PM
Surr: DNOP	95.4	21-129	%Rec	1	10/24/2022 3:13:14 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/21/2022 11:47:47 PM
Surr: BFB	88.2	37.7-212	%Rec	1	10/21/2022 11:47:47 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/21/2022 11:47:47 PM
Toluene	ND	0.048	mg/Kg	1	10/21/2022 11:47:47 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/21/2022 11:47:47 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/21/2022 11:47:47 PM
Surr: 4-Bromofluorobenzene	93.6	70-130	%Rec	1	10/21/2022 11:47:47 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	180	60	mg/Kg	20	10/23/2022 4:44:41 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210A33**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: MB-70995 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70995 RunNo: 92015

Prep Date: 10/21/2022 Analysis Date: 10/21/2022 SeqNo: 3301708 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-70995 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70995 RunNo: 92015

Prep Date: 10/21/2022 Analysis Date: 10/21/2022 SeqNo: 3301709 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.4 90 110

Sample ID: MB-70996 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 70996 RunNo: 92023

Prep Date: 10/21/2022 Analysis Date: 10/23/2022 SeqNo: 3301998 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-70996 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70996 RunNo: 92023

Prep Date: 10/21/2022 Analysis Date: 10/23/2022 SeqNo: 3301999 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.0 90 110

Sample ID: MB-70995 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **70995** RunNo: **92023**

Prep Date: 10/21/2022 Analysis Date: 10/23/2022 SeqNo: 3302027 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-70995 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 70995 RunNo: 92023

Prep Date: 10/21/2022 Analysis Date: 10/23/2022 SeqNo: 3302028 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 93.4 90 110

Qualifiers:

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210A33 28-Oct-22**

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: LCS-70987	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch	n ID: 70 9	987	F	RunNo: 9						
Prep Date: 10/21/2022	Analysis D	ate: 10)/24/2022	\$	SeqNo: 3302245 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	43	15	50.00	0	86.5	64.4	127				
Surr: DNOP	4.4		5.000		88.5	21	129				
Sample ID: MB-70987	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics										

Campic ID. IND-70307	Campi	Camprype. MBER			restore. El A metilod 60 15m/b. Dieser Kange Organies					
Client ID: PBS	Batch	ID: 70 9	987	R	RunNo: 92025					
Prep Date: 10/21/2022	Analysis D	ate: 10	/24/2022	SeqNo: 3302247 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.0	21	129			

Sample ID: 2210A33-001AMS	SampT	уре: М \$	3	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: BES22-41 2.5'	Batch	Batch ID: 70987 RunNo: 92025								
Prep Date: 10/21/2022	Analysis D	ate: 10)/24/2022	SeqNo: 3302439 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	14	45.75	0	87.1	36.1	154			
Surr: DNOP	4.2		4.575		92.3	21	129			

Sample ID: 2210A33-001A	MSD SampT	уре: М	SD	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BES22-41 2.5'	Batch	Batch ID: 70987 RunNo: 92025								
Prep Date: 10/21/2022	Analysis D	oate: 10)/24/2022	SeqNo: 3302440 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	14	45.00	0	89.7	36.1	154	1.34	33.9	
Surr: DNOP	43		4 500		947	21	120	0	0	

Qualifiers:

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

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2210A33

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: mb-70953 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 70953 RunNo: 92004

10/20/2022 Analysis Date: 10/21/2022 SeqNo: 3300850 Prep Date: Units: mg/Kg

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

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 960 1000 96.3 37.7 212

Sample ID: Ics-70953 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70953 RunNo: 92004

Prep Date: 10/20/2022 Analysis Date: 10/21/2022 SeqNo: 3300851 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 5.0 25.00 O 103 72.3 137 Surr: BFB S 3200 1000 316 37.7 212

Sample ID: 2210a33-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: BES22-41 2.5' Batch ID: 70953 RunNo: 92004

Prep Date: 10/20/2022 Analysis Date: 10/21/2022 SeqNo: 3300853 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result POI LowLimit HighLimit Qual Gasoline Range Organics (GRO) 29 5.0 24.80 0 115 70 130 Surr: BFB 2000 992.1 205 37.7 212

Sample ID: 2210a33-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BES22-41 2.5 Batch ID: 70953 RunNo: 92004

Prep Date: 10/20/2022 Analysis Date: 10/21/2022 SeqNo: 3300854 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 29 4.9 116 70 20 24 73 130 0.533 Surr: BFB 2100 989.1 208 37.7 212 0

Sample ID: mb-70932 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PRS Batch ID: 70932 RunNo: 92004

Prep Date: 10/19/2022 Analysis Date: 10/22/2022 SeqNo: 3300881 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 37.7

Surr: BFB 1000 900 89.6 212

Sample ID: Ics-70932 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 70932 RunNo: 92004

Prep Date: 10/19/2022 Analysis Date: 10/22/2022 SeqNo: 3300882 Units: %Rec

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

Surr: BFB 2000 1000 196 37.7

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

RL. Reporting Limit Page 23 of 25

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2210A33

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: mb-70953 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 70953 RunNo: 92004

Prep Date: 10/20/2022 Analysis Date: 10/21/2022 SeqNo: 3300919 Units: mg/Kg

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

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

Surr: 4-Bromofluorobenzene 1.0 1.000 100 70 130

Sample ID: LCS-70953 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 70953 RunNo: 92004

Prep Date: 10/20/2022	Prep Date: 10/20/2022 Analysis Date: 10/21/2022				SeqNo: 3300920 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	99.7	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: 2210a33-002ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: BES22-42 2.5' Batch ID: 70953 RunNo: 92004

Prep Date: 10/20/2022	Analysis [Analysis Date: 10/21/2022			SeqNo: 3300923 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.024	0.9470	0.01307	101	68.8	120			
Toluene	1.0	0.047	0.9470	0.01354	104	73.6	124			
Ethylbenzene	1.0	0.047	0.9470	0	106	72.7	129			
Xylenes, Total	3.0	0.095	2.841	0.01932	106	75.7	126			
Surr: 4-Bromofluorobenzene	0.92		0.9470		96.9	70	130			

TestCode: EPA Method 8021B: Volatiles Sample ID: 2210a33-002amsd SampType: MSD

Client ID: BES22-42 2.5' Batch ID: 70953 RunNo: 92004

Prep Date: 10/20/2022	Analysis D	Date: 10)/21/2022	SeqNo: 330092			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9461	0.01307	99.0	68.8	120	2.16	20	
Toluene	0.97	0.047	0.9461	0.01354	102	73.6	124	2.92	20	
Ethylbenzene	0.99	0.047	0.9461	0	104	72.7	129	2.01	20	
Xylenes, Total	3.0	0.095	2.838	0.01932	104	75.7	126	1.31	20	
Surr: 4-Bromofluorobenzene	0.94		0.9461		99.1	70	130	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated.

Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 24 of 25

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210A33**

28-Oct-22

Client: Vertex Resources Services, Inc.

Project: Papas Fritas 27 CTB1

Sample ID: mb-70932 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 70932 RunNo: 92004

Prep Date: 10/19/2022 Analysis Date: 10/22/2022 SeqNo: 3300943 Units: %Rec

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

Surr: 4-Bromofluorobenzene 0.96 1.000 95.5 70 130

Sample ID: LCS-70932 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 70932 RunNo: 92004

Prep Date: 10/19/2022 Analysis Date: 10/22/2022 SeqNo: 3300944 Units: %Rec

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

Surr: 4-Bromofluorobenzene 0.96 1.000 96.5 70 130

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 25 of 25



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

Sample Log-In Check List

Client Name:	Vertex Resources Services, Inc.	Work Order Num	ber: 2210A33		RcptNo: 1	
Received By:	Juan Rojas	10/20/2022 7:55:00	0 AM	flower &		
Completed By:	Tracy Casarrubias	10/20/2022 8:17:28	B AM			
Reviewed By: S	a iolzolza					
Chain of Cust	tody					
1. Is Chain of Cu	stody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the s	sample delivered?		Courier			
Log In						
3. Was an attem	pt made to cool the sample	es?	Yes 🔽	No 🗌	NA 🗆	
4. Were all samp	les received at a temperatu	ure of >0° C to 6.0°C	Yes 🗸	No 🗆	NA. 🗆	
5. Sample(s) in p	roper container(s)?		Yes 🔽	No 🗆		
6. Sufficient samp	ole volume for indicated tes	et(s)?	Yes 🔽	No 🗆		
7. Are samples (e	except VOA and ONG) prop	erly preserved?	Yes 🔽	No 🗆		
8. Was preservati	ive added to bottles?		Yes	No 🔽	NA 🗆	
9. Received at lea	ast 1 vial with headspace <	1/4" for AQ VOA?	Yes	No 🗌	NA 🔽	
0. Were any sam	ple containers received bro	oken?	Yes	No 🔽	# of preserved	
	k match bottle labels?		Yes 🔽	No 🗆	bottles checked for pH: (<2 or >12	unless noted)
2. Are matrices co	orrectly identified on Chain	of Custody?	Yes 🔽	No 🗆	Adjusted?	
	analyses were requested?		Yes 🗸	No 🗌	/	
	g times able to be met? stomer for authorization.)		Yes 🗹	No 🗆	Checked by: KRO	10.9(
pecial Handlii	ng (if applicable)					
15. Was client noti	ified of all discrepancies wi	th this order?	Yes 🗌	No 🗆	NA 🗹	
Person N	Notified:	Date				
By Whon	n:	Via:		Phone Fax	☐ In Person	
Regardin	ig:				- 320	
Client Ins	structions:					
16. Additional rem	narks:					
17. <u>Cooler Inform</u>	Brown and the second of the second of the second	Without National	LEPS Files			
Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		

Page 1 of 1

Client: DeVon/Verkey			1				vec
	□ Standard ☑ Rush			HALL	ENVI	HALL ENVIRONMENT	A
				ANA	ANALTSIS	LABORATOR	9 <i>CI</i> 2 0
Mailing Address: つか	PAPAS FritAS	S 27 CTB1	4901 H	www.ha	www.hallenvironmental.com	ntal.com	D: 12/
<u>a</u>	Project #:		1000	awrills INE -	Albuquero	Aibuquerque, NM 87109	/2/20
Phone #:	226-01417		lei. or	505-345-3975 A	Analysis Reguest	Fax 505-345-4107 vsis Request	022 2
email or Fax#: P	Project Manager:				†((1	:02:
QA/QC Package: Standard Level 4 (Full Validation)	J	stanings	s (8021 O / MRC	SWIS	OS '⁵Od	InəsdA\	:23 PM
Accreditation: Az Compliance Sa	CD		AO \				
	- Yes	ON 🗆	90	10			
= EUD (1)ye)	(49)	018	(
<u>تا</u>	Cooler emp(including cF): / - }	1724 (°C)	J91 (8 yc	AO	100	
Date Time Matrix Sample Name Ty	Container Preservative Type and #	HEAL NO.)8:Hq1	SCRA PAHs E	250 (S		
10/18 8:30 50,7 BESZZ-41 2.5'	ICE	100	5	4	8		
8:35 8 ESZZ-42 Z,S'		W.J.	-		, .		
8:40 BESZZ-44 2.5'		COS					
8:45 WESTZ-08 1'		how					
9.15 BESZZ-28 2.5'		Sol					
2 6		000					
9:25 136522-30 2.5'		400					
4.30 BES27-31 2.5'		300					
9:35 WESZ-11 2'		200					
1. SI-225977 Oh: 6		010					
9:45 WEST-16)'	0	110					
10.55		510					
Date: Time: Relinquished by: Rec	Via:	ate/	Remarks: CC	2	200	00	Pa
: Time: Relinguished by:	MANNING PILL	OGP1 77/11.	10	Direct Bill	11 Davon	00	ge .
O Grunns	M	vale lime	1	104;20976741	1916	16.	301 of

)		Cildili-Oi-Custody Record	hb0-7:	794			1 4 1 1	L		
Client:	Devan	Devon / Merax	□ Standard ☑ Rush	j i			MALL ENVI	VE STON		1 5
			Project Name:					ה ה		LABORATOR
Mailing Address:		Ju =1 16	Papas Frieds	35	49	01 Hawk	www.hall		www.hallenvironmental.com): 12/
			Project #:		2 1	Tel. 505-3	505-345-3975		505-345-4107	
Phone #:			22E-01417				A		Request	
email or Fax#:	Fax#:		Project Manager:		_				(11	
QA/QC Package: ☐ Standard	ackage:	☐ Level 4 (Full Validation)	Kent stallings	sbu	's (802°	bcB,a	SMIS	PO4, S	nəsdA\t	
Accreditation:		☐ Az Compliance ☐ Other	Sampler: CD	S			۲ 8270	'ZON		
☐ EDD (Type)	-		olers:	2			sls	,£O		
			(including CF):	13to 1224 (°C)	ITM) Met			
Date	Time Ma	Matrix Sample Name	Container Preservative Type and # Type	72 IOA 33	(ХЭТ <i>В</i> 08:НЧТ	9081 P6 M) 803	S ARDS	SSE0 (V	S) 07S8	
10118	11:00 5	SOIT BESZI-35 Z.S'		013	>			_		
-	11:05	BESZZ-36 Z.S'		75						
7.	11:10	BES22-37 2.5		310						
`	11:35	BES22-38S'		250						
1	00:1	WES22-24 11		F10						
	11/5	4/6522-13 2'		010						
	02:/	WESZZ-14 2'		5iC						
-	- 500	WESZZ-18 11	_	ors						
Date: Ti	Time:	Relinguished by:	Donoing but							
		. (0.00,00,00,00,00,00,00,00,00,00,00,00,00	2	10/11/22 1230	Remarks:		CC: Chance		Dixon	
Date; Time:	ш.	Relinquished by:	1	2.	4	107	10#: 20976741	767	11/	e 302 of
100		NAME OF THE PARTY	11111111	101111111111111111111111111111111111111						



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

October 31, 2022

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (575) 748-0176

FAX:

RE: Papas fritas 27 CTB1 OrderNo.: 2210B03

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 33 sample(s) on 10/21/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-25 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 8:45:00 AM

 Lab ID:
 2210B03-001
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 9:47:11 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/25/2022 9:47:11 AM
Surr: DNOP	91.9	21-129	%Rec	1	10/25/2022 9:47:11 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/25/2022 2:27:27 AM
Surr: BFB	96.3	37.7-212	%Rec	1	10/25/2022 2:27:27 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/25/2022 2:27:27 AM
Toluene	ND	0.048	mg/Kg	1	10/25/2022 2:27:27 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/25/2022 2:27:27 AM
Xylenes, Total	ND	0.096	mg/Kg	1	10/25/2022 2:27:27 AM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	10/25/2022 2:27:27 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	300	60	mg/Kg	20	10/24/2022 5:45:13 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 40

Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-26 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 8:45:00 AM

 Lab ID:
 2210B03-002
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 10:00:44 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/25/2022 10:00:44 AM
Surr: DNOP	85.3	21-129	%Rec	1	10/25/2022 10:00:44 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/25/2022 2:50:59 AM
Surr: BFB	98.2	37.7-212	%Rec	1	10/25/2022 2:50:59 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/25/2022 2:50:59 AM
Toluene	ND	0.050	mg/Kg	1	10/25/2022 2:50:59 AM
Ethylbenzene	ND	0.050	mg/Kg	1	10/25/2022 2:50:59 AM
Xylenes, Total	ND	0.10	mg/Kg	1	10/25/2022 2:50:59 AM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/25/2022 2:50:59 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	97	60	mg/Kg	20	10/24/2022 5:57:38 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-27 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 8:55:00 AM

 Lab ID:
 2210B03-003
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 10:14:26 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 10:14:26 AM
Surr: DNOP	93.7	21-129	%Rec	1	10/25/2022 10:14:26 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 3:14:27 AM
Surr: BFB	87.5	37.7-212	%Rec	1	10/25/2022 3:14:27 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	10/25/2022 3:14:27 AM
Toluene	ND	0.049	mg/Kg	1	10/25/2022 3:14:27 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2022 3:14:27 AM
Xylenes, Total	ND	0.097	mg/Kg	1	10/25/2022 3:14:27 AM
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	1	10/25/2022 3:14:27 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	790	60	mg/Kg	20	10/24/2022 7:24:30 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-19 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 9:00:00 AM

 Lab ID:
 2210B03-004
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 10:27:57 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/25/2022 10:27:57 AM
Surr: DNOP	88.5	21-129	%Rec	1	10/25/2022 10:27:57 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 3:37:53 AM
Surr: BFB	91.3	37.7-212	%Rec	1	10/25/2022 3:37:53 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/25/2022 3:37:53 AM
Toluene	ND	0.049	mg/Kg	1	10/25/2022 3:37:53 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2022 3:37:53 AM
Xylenes, Total	ND	0.098	mg/Kg	1	10/25/2022 3:37:53 AM
Surr: 4-Bromofluorobenzene	97.4	70-130	%Rec	1	10/25/2022 3:37:53 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	89	60	mg/Kg	20	10/24/2022 7:36:54 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

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

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-22 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 9:05:00 AM

 Lab ID:
 2210B03-005
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 10:41:34 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/25/2022 10:41:34 AM
Surr: DNOP	90.3	21-129	%Rec	1	10/25/2022 10:41:34 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/25/2022 4:01:21 AM
Surr: BFB	98.4	37.7-212	%Rec	1	10/25/2022 4:01:21 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/25/2022 4:01:21 AM
Toluene	ND	0.050	mg/Kg	1	10/25/2022 4:01:21 AM
Ethylbenzene	ND	0.050	mg/Kg	1	10/25/2022 4:01:21 AM
Xylenes, Total	ND	0.10	mg/Kg	1	10/25/2022 4:01:21 AM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	10/25/2022 4:01:21 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	140	60	mg/Kg	20	10/24/2022 7:49:18 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-23 1'

Project: Papas fritas 27 CTB1 **Collection Date:** 10/19/2022 9:10:00 AM 2210B03-006 Lab ID: Matrix: SOIL **Received Date:** 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 10:55:10 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/25/2022 10:55:10 AM
Surr: DNOP	91.6	21-129	%Rec	1	10/25/2022 10:55:10 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 4:24:43 AM
Surr: BFB	96.2	37.7-212	%Rec	1	10/25/2022 4:24:43 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/25/2022 4:24:43 AM
Toluene	ND	0.049	mg/Kg	1	10/25/2022 4:24:43 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2022 4:24:43 AM
Xylenes, Total	ND	0.098	mg/Kg	1	10/25/2022 4:24:43 AM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	10/25/2022 4:24:43 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	97	60	mg/Kg	20	10/24/2022 8:01:42 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL

Reporting Limit

Page 6 of 40

Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-25 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 9:15:00 AM

 Lab ID:
 2210B03-007
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 11:08:40 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/25/2022 11:08:40 AM
Surr: DNOP	76.8	21-129	%Rec	1	10/25/2022 11:08:40 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/25/2022 4:48:11 AM
Surr: BFB	96.5	37.7-212	%Rec	1	10/25/2022 4:48:11 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/25/2022 4:48:11 AM
Toluene	ND	0.050	mg/Kg	1	10/25/2022 4:48:11 AM
Ethylbenzene	ND	0.050	mg/Kg	1	10/25/2022 4:48:11 AM
Xylenes, Total	ND	0.099	mg/Kg	1	10/25/2022 4:48:11 AM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	10/25/2022 4:48:11 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	60	mg/Kg	20	10/24/2022 8:14:06 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-06 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 9:20:00 AM

 Lab ID:
 2210B03-008
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 11:22:15 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 11:22:15 AM
Surr: DNOP	85.3	21-129	%Rec	1	10/25/2022 11:22:15 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/25/2022 5:11:40 AM
Surr: BFB	89.6	37.7-212	%Rec	1	10/25/2022 5:11:40 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	10/25/2022 5:11:40 AM
Toluene	ND	0.050	mg/Kg	1	10/25/2022 5:11:40 AM
Ethylbenzene	ND	0.050	mg/Kg	1	10/25/2022 5:11:40 AM
Xylenes, Total	ND	0.10	mg/Kg	1	10/25/2022 5:11:40 AM
Surr: 4-Bromofluorobenzene	96.1	70-130	%Rec	1	10/25/2022 5:11:40 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	60	mg/Kg	20	10/24/2022 8:26:31 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-07 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 9:25:00 AM

 Lab ID:
 2210B03-009
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 11:35:55 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 11:35:55 AM
Surr: DNOP	78.8	21-129	%Rec	1	10/25/2022 11:35:55 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/24/2022 3:05:00 PM
Surr: BFB	107	37.7-212	%Rec	1	10/24/2022 3:05:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/24/2022 3:05:00 PM
Toluene	ND	0.048	mg/Kg	1	10/24/2022 3:05:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/24/2022 3:05:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	10/24/2022 3:05:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/24/2022 3:05:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 9:03:45 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-03 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 9:55:00 AM

 Lab ID:
 2210B03-010
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR		Analyst: DGH			
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 11:49:24 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 11:49:24 AM
Surr: DNOP	76.9	21-129	%Rec	1	10/25/2022 11:49:24 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/24/2022 3:45:00 PM
Surr: BFB	104	37.7-212	%Rec	1	10/24/2022 3:45:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/24/2022 3:45:00 PM
Toluene	ND	0.049	mg/Kg	1	10/24/2022 3:45:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/24/2022 3:45:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/24/2022 3:45:00 PM
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	10/24/2022 3:45:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 9:16:10 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-04 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 10:00:00 AM

 Lab ID:
 2210B03-011
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF		Analyst: DGH			
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 3:15:29 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/25/2022 3:15:29 PM
Surr: DNOP	80.4	21-129	%Rec	1	10/25/2022 3:15:29 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/24/2022 4:05:00 PM
Surr: BFB	106	37.7-212	%Rec	1	10/24/2022 4:05:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 4:05:00 PM
Toluene	ND	0.050	mg/Kg	1	10/24/2022 4:05:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/24/2022 4:05:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/24/2022 4:05:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/24/2022 4:05:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 9:28:34 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-05 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 10:05:00 AM

 Lab ID:
 2210B03-012
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 12:16:29 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/25/2022 12:16:29 PM
Surr: DNOP	77.3	21-129	%Rec	1	10/25/2022 12:16:29 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/24/2022 4:25:00 PM
Surr: BFB	97.5	37.7-212	%Rec	1	10/24/2022 4:25:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 4:25:00 PM
Toluene	ND	0.050	mg/Kg	1	10/24/2022 4:25:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/24/2022 4:25:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/24/2022 4:25:00 PM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	10/24/2022 4:25:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 10:05:46 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-13 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 10:30:00 AM

 Lab ID:
 2210B03-013
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 12:30:00 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/25/2022 12:30:00 PM
Surr: DNOP	82.9	21-129	%Rec	1	10/25/2022 12:30:00 PM
EPA METHOD 8015D: GASOLINE RANGE	₫				Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/24/2022 4:44:00 PM
Surr: BFB	99.0	37.7-212	%Rec	1	10/24/2022 4:44:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 4:44:00 PM
Toluene	ND	0.049	mg/Kg	1	10/24/2022 4:44:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/24/2022 4:44:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/24/2022 4:44:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	10/24/2022 4:44:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 10:18:10 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-14 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 10:35:00 AM

 Lab ID:
 2210B03-014
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 12:43:38 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 12:43:38 PM
Surr: DNOP	75.7	21-129	%Rec	1	10/25/2022 12:43:38 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/24/2022 5:04:00 PM
Surr: BFB	102	37.7-212	%Rec	1	10/24/2022 5:04:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/24/2022 5:04:00 PM
Toluene	ND	0.048	mg/Kg	1	10/24/2022 5:04:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/24/2022 5:04:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/24/2022 5:04:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/24/2022 5:04:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 10:30:35 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-15 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 10:40:00 AM

 Lab ID:
 2210B03-015
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 12:57:28 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 12:57:28 PM
Surr: DNOP	81.8	21-129	%Rec	1	10/25/2022 12:57:28 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/24/2022 5:24:00 PM
Surr: BFB	103	37.7-212	%Rec	1	10/24/2022 5:24:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/24/2022 5:24:00 PM
Toluene	ND	0.048	mg/Kg	1	10/24/2022 5:24:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/24/2022 5:24:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/24/2022 5:24:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/24/2022 5:24:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 10:42:59 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-17 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 10:45:00 AM

 Lab ID:
 2210B03-016
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF		Analyst: DGH			
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 1:11:00 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/25/2022 1:11:00 PM
Surr: DNOP	73.8	21-129	%Rec	1	10/25/2022 1:11:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/24/2022 5:43:00 PM
Surr: BFB	109	37.7-212	%Rec	1	10/24/2022 5:43:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/24/2022 5:43:00 PM
Toluene	ND	0.048	mg/Kg	1	10/24/2022 5:43:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/24/2022 5:43:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	10/24/2022 5:43:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/24/2022 5:43:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 10:55:23 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-19 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 10:50:00 AM

 Lab ID:
 2210B03-017
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 1:24:37 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/25/2022 1:24:37 PM
Surr: DNOP	84.6	21-129	%Rec	1	10/25/2022 1:24:37 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/24/2022 6:03:00 PM
Surr: BFB	95.5	37.7-212	%Rec	1	10/24/2022 6:03:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/24/2022 6:03:00 PM
Toluene	ND	0.048	mg/Kg	1	10/24/2022 6:03:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	10/24/2022 6:03:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/24/2022 6:03:00 PM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	10/24/2022 6:03:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 11:32:37 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-26 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 10:55:00 AM

 Lab ID:
 2210B03-018
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 1:38:28 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/25/2022 1:38:28 PM
Surr: DNOP	86.3	21-129	%Rec	1	10/25/2022 1:38:28 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/24/2022 6:23:00 PM
Surr: BFB	103	37.7-212	%Rec	1	10/24/2022 6:23:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 6:23:00 PM
Toluene	ND	0.049	mg/Kg	1	10/24/2022 6:23:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/24/2022 6:23:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/24/2022 6:23:00 PM
Surr: 4-Bromofluorobenzene	110	70-130	%Rec	1	10/24/2022 6:23:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/24/2022 11:45:01 PM

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

Qualifiers:

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

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-28 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 11:00:00 AM

 Lab ID:
 2210B03-019
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: JME				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 9:49:39 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 9:49:39 AM
Surr: DNOP	85.0	21-129	%Rec	1	10/25/2022 9:49:39 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/24/2022 8:22:00 PM
Surr: BFB	99.9	37.7-212	%Rec	1	10/24/2022 8:22:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 8:22:00 PM
Toluene	ND	0.050	mg/Kg	1	10/24/2022 8:22:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/24/2022 8:22:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/24/2022 8:22:00 PM
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	10/24/2022 8:22:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	59	mg/Kg	20	10/24/2022 11:57:25 PM

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

Qualifiers:

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

ple pH Not In Range
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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-29 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 11:05:00 AM

 Lab ID:
 2210B03-020
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: JME				
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/25/2022 10:13:29 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/25/2022 10:13:29 AM
Surr: DNOP	92.8	21-129	%Rec	1	10/25/2022 10:13:29 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/24/2022 9:21:00 PM
Surr: BFB	98.1	37.7-212	%Rec	1	10/24/2022 9:21:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 9:21:00 PM
Toluene	ND	0.050	mg/Kg	1	10/24/2022 9:21:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/24/2022 9:21:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/24/2022 9:21:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/24/2022 9:21:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 12:34:37 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-23 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 12:30:00 PM

 Lab ID:
 2210B03-021
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF		Analyst: JME			
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 10:37:19 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 10:37:19 AM
Surr: DNOP	90.0	21-129	%Rec	1	10/25/2022 10:37:19 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/24/2022 10:20:00 PM
Surr: BFB	101	37.7-212	%Rec	1	10/24/2022 10:20:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/24/2022 10:20:00 PM
Toluene	ND	0.049	mg/Kg	1	10/24/2022 10:20:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/24/2022 10:20:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	10/24/2022 10:20:00 PM
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	10/24/2022 10:20:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 1:11:50 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-27 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 12:35:00 PM

 Lab ID:
 2210B03-022
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	Analyst: JME				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 11:01:08 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/25/2022 11:01:08 AM
Surr: DNOP	90.3	21-129	%Rec	1	10/25/2022 11:01:08 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/24/2022 10:40:00 PM
Surr: BFB	97.7	37.7-212	%Rec	1	10/24/2022 10:40:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 10:40:00 PM
Toluene	ND	0.050	mg/Kg	1	10/24/2022 10:40:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/24/2022 10:40:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/24/2022 10:40:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/24/2022 10:40:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 1:24:14 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-12 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 12:40:00 PM

 Lab ID:
 2210B03-023
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	Analyst: JME				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 11:24:56 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/25/2022 11:24:56 AM
Surr: DNOP	90.9	21-129	%Rec	1	10/25/2022 11:24:56 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/24/2022 11:00:00 PM
Surr: BFB	101	37.7-212	%Rec	1	10/24/2022 11:00:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 11:00:00 PM
Toluene	ND	0.049	mg/Kg	1	10/24/2022 11:00:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/24/2022 11:00:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/24/2022 11:00:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/24/2022 11:00:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	61	mg/Kg	20	10/25/2022 2:01:27 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-10 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 12:45:00 PM

 Lab ID:
 2210B03-024
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 1:43:00 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/25/2022 1:43:00 PM
Surr: DNOP	100	21-129	%Rec	1	10/25/2022 1:43:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/24/2022 11:20:00 PM
Surr: BFB	96.6	37.7-212	%Rec	1	10/24/2022 11:20:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 11:20:00 PM
Toluene	ND	0.049	mg/Kg	1	10/24/2022 11:20:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/24/2022 11:20:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/24/2022 11:20:00 PM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	10/24/2022 11:20:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 2:13:51 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-09 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 12:50:00 PM

 Lab ID:
 2210B03-025
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 1:18:56 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 1:18:56 PM
Surr: DNOP	98.9	21-129	%Rec	1	10/25/2022 1:18:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/24/2022 11:39:00 PM
Surr: BFB	98.0	37.7-212	%Rec	1	10/24/2022 11:39:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/24/2022 11:39:00 PM
Toluene	ND	0.050	mg/Kg	1	10/24/2022 11:39:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/24/2022 11:39:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	10/24/2022 11:39:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/24/2022 11:39:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 2:26:15 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-08 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 12:55:00 PM

 Lab ID:
 2210B03-026
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 12:54:43 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/25/2022 12:54:43 PM
Surr: DNOP	103	21-129	%Rec	1	10/25/2022 12:54:43 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/24/2022 11:59:00 PM
Surr: BFB	97.8	37.7-212	%Rec	1	10/24/2022 11:59:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/24/2022 11:59:00 PM
Toluene	ND	0.049	mg/Kg	1	10/24/2022 11:59:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	10/24/2022 11:59:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	10/24/2022 11:59:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/24/2022 11:59:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 2:38:39 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-06 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 1:00:00 PM

 Lab ID:
 2210B03-027
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 12:30:35 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/25/2022 12:30:35 PM
Surr: DNOP	102	21-129	%Rec	1	10/25/2022 12:30:35 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 12:19:00 AM
Surr: BFB	98.3	37.7-212	%Rec	1	10/25/2022 12:19:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	10/25/2022 12:19:00 AM
Toluene	ND	0.049	mg/Kg	1	10/25/2022 12:19:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2022 12:19:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	10/25/2022 12:19:00 AM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	10/25/2022 12:19:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 2:51:04 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-05 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 1:05:00 PM

 Lab ID:
 2210B03-028
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/25/2022 12:06:16 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/25/2022 12:06:16 PM
Surr: DNOP	94.7	21-129	%Rec	1	10/25/2022 12:06:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 12:38:00 AM
Surr: BFB	101	37.7-212	%Rec	1	10/25/2022 12:38:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/25/2022 12:38:00 AM
Toluene	ND	0.049	mg/Kg	1	10/25/2022 12:38:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2022 12:38:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	10/25/2022 12:38:00 AM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/25/2022 12:38:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 3:03:28 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-04 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 1:10:00 PM

 Lab ID:
 2210B03-029
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: DGH				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	10/25/2022 11:42:16 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	10/25/2022 11:42:16 AM
Surr: DNOP	97.2	21-129	%Rec	1	10/25/2022 11:42:16 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/25/2022 1:18:00 AM
Surr: BFB	102	37.7-212	%Rec	1	10/25/2022 1:18:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/25/2022 1:18:00 AM
Toluene	ND	0.048	mg/Kg	1	10/25/2022 1:18:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/25/2022 1:18:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	10/25/2022 1:18:00 AM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/25/2022 1:18:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 3:15:52 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

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

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-02 2.5'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 1:15:00 PM

 Lab ID:
 2210B03-030
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	Analyst: DGH				
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/25/2022 11:17:57 AM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	10/25/2022 11:17:57 AM
Surr: DNOP	96.9	21-129	%Rec	1	10/25/2022 11:17:57 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 1:38:00 AM
Surr: BFB	100	37.7-212	%Rec	1	10/25/2022 1:38:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/25/2022 1:38:00 AM
Toluene	ND	0.049	mg/Kg	1	10/25/2022 1:38:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2022 1:38:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	10/25/2022 1:38:00 AM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	10/25/2022 1:38:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 3:28:17 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-31 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 1:20:00 PM

 Lab ID:
 2210B03-031
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 10:53:49 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/25/2022 10:53:49 AM
Surr: DNOP	98.8	21-129	%Rec	1	10/25/2022 10:53:49 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 1:57:00 AM
Surr: BFB	97.8	37.7-212	%Rec	1	10/25/2022 1:57:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/25/2022 1:57:00 AM
Toluene	ND	0.049	mg/Kg	1	10/25/2022 1:57:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2022 1:57:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	10/25/2022 1:57:00 AM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	10/25/2022 1:57:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	10/25/2022 3:40:41 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-32 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 1:25:00 AM

 Lab ID:
 2210B03-032
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	10/25/2022 10:29:41 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	10/25/2022 10:29:41 AM
Surr: DNOP	99.5	21-129	%Rec	1	10/25/2022 10:29:41 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	10/25/2022 2:17:00 AM
Surr: BFB	100	37.7-212	%Rec	1	10/25/2022 2:17:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/25/2022 2:17:00 AM
Toluene	ND	0.049	mg/Kg	1	10/25/2022 2:17:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	10/25/2022 2:17:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	10/25/2022 2:17:00 AM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	10/25/2022 2:17:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	61	mg/Kg	20	10/25/2022 12:26:48 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 10/31/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-33 1'

 Project:
 Papas fritas 27 CTB1
 Collection Date: 10/19/2022 1:30:00 PM

 Lab ID:
 2210B03-033
 Matrix: SOIL
 Received Date: 10/21/2022 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	Analyst: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	10/25/2022 10:05:33 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	10/25/2022 10:05:33 AM
Surr: DNOP	101	21-129	%Rec	1	10/25/2022 10:05:33 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	10/25/2022 2:37:00 AM
Surr: BFB	99.1	37.7-212	%Rec	1	10/25/2022 2:37:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	10/25/2022 2:37:00 AM
Toluene	ND	0.048	mg/Kg	1	10/25/2022 2:37:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	10/25/2022 2:37:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	10/25/2022 2:37:00 AM
Surr: 4-Bromofluorobenzene	107	70-130	%Rec	1	10/25/2022 2:37:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	160	60	mg/Kg	20	10/25/2022 12:39:08 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2210B03

31-Oct-22

Client:	Devon Energy
Project:	Papas fritas 27 CTB1

Project:		fritas 27 CTB1	
Sample ID:	MB-71027	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 71027	RunNo: 92018
Prep Date:	10/24/2022	Analysis Date: 10/24/2022	SeqNo: 3302974 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND 1.5	
Sample ID:	LCS-71027	SampType: Ics	TestCode: EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID: 71027	RunNo: 92018
Prep Date:	10/24/2022	Analysis Date: 10/24/2022	SeqNo: 3302975 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		15 1.5 15.00	0 98.2 90 110
Sample ID:	MB-71031	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 71031	RunNo: 92018
Prep Date:	10/24/2022	Analysis Date: 10/24/2022	SeqNo: 3303006 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND 1.5	
Sample ID:	LCS-71031	SampType: Ics	TestCode: EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID: 71031	RunNo: 92018
Prep Date:	10/24/2022	Analysis Date: 10/24/2022	SeqNo: 3303007 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		15 1.5 15.00	0 98.0 90 110
Sample ID:	MB-71033	SampType: mblk	TestCode: EPA Method 300.0: Anions
Client ID:	PBS	Batch ID: 71033	RunNo: 92046
Prep Date:	10/24/2022	Analysis Date: 10/24/2022	SeqNo: 3303106 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		ND 1.5	
Sample ID:	LCS-71033	SampType: Ics	TestCode: EPA Method 300.0: Anions
Client ID:	LCSS	Batch ID: 71033	RunNo: 92046
Prep Date:	10/24/2022	Analysis Date: 10/24/2022	SeqNo: 3303107 Units: mg/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride		15 1.5 15.00	0 97.2 90 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2210B03 31-Oct-22

WO#:

Client:	Devon Energy
Project:	Papas fritas 27 CTB1

Project:	Papas frita	as 27 CTB	1								
Sample ID:	MB-71043	SampTy	уре: МЕ	BLK	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch	ID: 71 0	043	F	RunNo: 92	2056				
Prep Date:	10/24/2022	Analysis Da	ate: 10	/25/2022	;	SeqNo: 3	303572	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	ND	15								
Motor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		7.9		10.00		79.0	21	129			
Sample ID:	LCS-71043	SampTy	ype: LC	S	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batch	ID: 71 0	043	F	RunNo: 92	2056				
Prep Date:	10/24/2022	Analysis Da	ate: 10	/25/2022	;	SeqNo: 33	303573	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	48	15	50.00	0	95.5	64.4	127			
Surr: DNOP		3.5		5.000		70.8	21	129			
Sample ID:	2210B03-001AMS	SampTy	ype: MS	5	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	BES22-25 2.5'	Batch	ID: 71 0	043	F	RunNo: 92	2056				
Prep Date:	10/24/2022	Analysis Da	ate: 10	/25/2022	;	SeqNo: 3	303592	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	53	15	49.46	0	108	36.1	154			
Surr: DNOP		4.1		4.946		83.3	21	129			
Sample ID:	2210B03-001AMSD	SampTy	ype: MS	SD	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	BES22-25 2.5'	Batch	ID: 71 0	043	F	RunNo: 92	2056				
Prep Date:	10/24/2022	Analysis Da	ate: 10	/25/2022	;	SeqNo: 3	303593	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	46	14	47.48	0	96.0	36.1	154	15.5	33.9	
Surr: DNOP		3.8		4.748		79.7	21	129	0	0	
Sample ID:	2210B03-019AMS	SampTy	ype: MS	5	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	WES22-28 1'	Batch	ID: 71 0	021	F	RunNo: 92	2056				
Prep Date:	10/24/2022	Analysis Da	ate: 10	/25/2022	;	SeqNo: 3	303594	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	50	15	49.07	0	102	36.1	154			
Surr: DNOP		4.0		4.907		81.2	21	129			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2210B03 31-Oct-22

WO#:

Client:	Devon Energy
Project:	Papas fritas 27 CTB1

Project: Papas	s fritas 27 CTB1	
Sample ID: 2210B03-019	AMSD SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: WES22-28 1'	Batch ID: 71021	RunNo: 92056
Prep Date: 10/24/2022	Analysis Date: 10/25/2022	SeqNo: 3303595 Units: mg/Kg
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	52 14 47.04	0 110 36.1 154 3.45 33.9
Surr: DNOP	4.0 4.704	85.1 21 129 0 0
Sample ID: MB-71021	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 71021	RunNo: 92056
Prep Date: 10/24/2022	Analysis Date: 10/25/2022	SeqNo: 3307123 Units: mg/Kg
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 15	
Motor Oil Range Organics (MRO)	•	
Surr: DNOP	8.0 10.00	80.1 21 129
Sample ID: LCS-71021	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 71021	RunNo: 92056
Prep Date: 10/24/2022	Analysis Date: 10/25/2022	SeqNo: 3307124 Units: mg/Kg
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	52 15 50.00	0 104 64.4 127
Surr: DNOP	3.9 5.000	78.1 21 129
Sample ID: MB-71024	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 71024	RunNo: 92056
Prep Date: 10/24/2022	Analysis Date: 10/25/2022	SeqNo: 3307125 Units: %Rec
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	8.2 10.00	82.1 21 129
Sample ID: LCS-71024	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 71024	RunNo: 92056
Prep Date: 10/24/2022	Analysis Date: 10/25/2022	SeqNo: 3307126 Units: %Rec
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	3.9 5.000	77.5 21 129

Qualifiers:

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

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WO#: 2210B03

Hall Environmental Analysis Laboratory, Inc.	31-Oct-22

Client:	Devon Energy
Project:	Papas fritas 27 CTB1

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: G92027	RunNo: 92027						
Prep Date:	Analysis Date: 10/24/2022	SeqNo: 3302526 Units: %Rec						
Analyte	Result PQL SPK value SPK Ref	f Val %REC LowLimit HighLimit %RPD RPDLimit Qual						

Surr: BFB 950 1000 95.1 37.7 212

Sample ID.	2.5ug gro ics	Samp i ype.	LCS	res	icode. Ei	A Wethod	8015D: Gason	ne Kange			
Client ID:	LCSS	Batch ID:	F	RunNo: 92027							
Prep Date:		Analysis Date:	10/24/2022	5	SeqNo: 3	302527	Units: %Rec				
Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB		1900	1000		190	37.7	212				

Sample ID: mb-71004	SampT	ype: MB	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: PBS	Batch ID: 71004			RunNo: 92027						
Prep Date: 10/23/2022	Analysis D	ate: 10	/24/2022	5	SeqNo: 33	302554	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.4	37.7	212			

Sample ID: Ics-71004 SampType: LCS				Tes	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 71004			F	RunNo: 92027					
Prep Date: 10/23/2022 Analysis Date: 10/24/2022		5	SeqNo: 3302555 Units: mg/Kg			g				
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	2100		1000		211	37.7	212			

Sample ID: mb-71005	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	!	
Client ID: PBS	Batch	n ID: 71 (005	F	RunNo: 92	2041				
Prep Date: 10/23/2022	Analysis D	Date: 10	/24/2022	5	SeqNo: 33	802845	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: RER	aan		1000		98.8	37 7	212			

Sample ID: Ics-71005	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	•	
Client ID: LCSS	Batch	ID: 710	005	F	RunNo: 92	2041				
Prep Date: 10/23/2022	Analysis D	ate: 10	/24/2022	9	SeqNo: 33	303528	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	72.3	137			
Surr: BFB	2200		1000		223	37.7	212			S

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2210B03

WO#:

31-Oct-22

Client: Devon Energy
Project: Papas fritas 27 CTB1

Sample ID: 2210B03-019ams	SampT	ype: MS	;	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	1	
Client ID: WES22-28 1'	Batch	1D: 710	005	F	RunNo: 92	2041				
Prep Date: 10/23/2022	Analysis D	ate: 10	/24/2022	9	SeqNo: 33	303535	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	24.13	0	101	70	130			
Surr: BFB	2200		965.3		230	37.7	212			S

Sample ID: 2210B03-019amsd	Samp1	уре: М S	SD .	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	;	
Client ID: WES22-28 1'	Batcl	n ID: 71 0	005	F	RunNo: 92	2041				
Prep Date: 10/23/2022	Analysis D	Date: 10	/24/2022	5	SeqNo: 3	303536	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	23.88	0	95.2	70	130	6.61	20	
Surr: BEB	2100		955.1		215	37.7	212	0	0	S

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210B03**

31-Oct-22

Client: Devon Energy
Project: Papas fritas 27 CTB1

Sample ID: mb-71004	SampT	уре: МВ	sLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batch	n ID: 710	004	F	RunNo: 92	2027				
Prep Date: 10/23/2022	Analysis D	Date: 10	/24/2022	5	SeqNo: 33	802600	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			

Sample ID: LCS-71004	Samp	Гуре: LC :	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	h ID: 710	004	F	RunNo: 92	2027				
Prep Date: 10/23/2022	Analysis [Date: 10	/24/2022	5	SeqNo: 33	302601	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: Ics-71005	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batch	n ID: 710	05	F	RunNo: 92	2041				
Prep Date: 10/23/2022	Analysis D	oate: 10	/24/2022	5	SeqNo: 33	302911	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	105	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	70	130			

Sample ID: mb-71005	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batch	n ID: 710	005	F	RunNo: 92	2041				
Prep Date: 10/23/2022	Analysis D	Date: 10	/24/2022	5	SeqNo: 33	302912	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210B03** *31-Oct-22*

Client: Devon Energy
Project: Papas fritas 27 CTB1

Sample ID: 2210B03-020ams	Samp	Гуре: м S	}	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: WES22-29 1'	Batcl	h ID: 710	005	F	RunNo: 92	2041				
Prep Date: 10/23/2022	Analysis [Date: 10	/24/2022	5	SeqNo: 33	303537	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9606	0	108	68.8	120			
Toluene	1.0	0.048	0.9606	0	108	73.6	124			
Ethylbenzene	1.0	0.048	0.9606	0	109	72.7	129			
Xylenes, Total	3.1	0.096	2.882	0	108	75.7	126			
Surr: 4-Bromofluorobenzene	1.1		0.9606		110	70	130			

Sample ID: 2210B03-020amso	I Samp	Туре: МЅ	SD	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: WES22-29 1'	Batc	h ID: 71 (005	F	RunNo: 92	2041				
Prep Date: 10/23/2022	Analysis I	Date: 10	/24/2022	5	SeqNo: 3	303538	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9785	0	106	68.8	120	0.0500	20	
Toluene	1.0	0.049	0.9785	0	107	73.6	124	0.909	20	
Ethylbenzene	1.0	0.049	0.9785	0	107	72.7	129	0.0712	20	
Xylenes, Total	3.1	0.098	2.935	0	106	75.7	126	0.0953	20	
Surr: 4-Bromofluorobenzene	1.1		0.9785		108	70	130	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque. NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	Devon Energy	Work Order Nu	mber: 22	10B03		RcptNo: 1	
Received By:	Juan Rojas	10/21/2022 7:20:	00 AM		Harring	23	
	Tracy Casarrubias	10/21/2022 7:46:			/ 2		
	See 10/21/22		33 AW				
Chain of Custo	ody						
1. Is Chain of Cust	tody complete?		Ye	s 🗸	No 🗆	Not Present	
2. How was the sa	mple delivered?			urier		Herricselle 🗀	
Log In							
	made to cool the sample	s?	Yes	· •	No 🗌	NA 🗆	
4. Were all samples	s received at a temperatu	re of >0° C to 6.0°C	Yes	V	No 🗌	NA 🗆	
5. Sample(s) in pro	per container(s)?		Yes	V	No 🗆		
6. Sufficient sample	volume for indicated tes	t(s)?	Yes	V	No 🗆		
7. Are samples (exc	ept VOA and ONG) prop	erly preserved?	Yes		No 🗆		
Was preservative			Yes		No 🗹	NA 🗆	
Received at least	1 vial with headspace <1	/4" for AQ VOA?	Yes	П	No 🗆	NA 🗹	
	containers received bro		Yes	=	No 🗹	NA 🖭	
			, 55		110 🖭	# of preserved	
 Does paperwork r (Note discrepancie) 	natch bottle labels? es on chain of custody)		Yes	V	No 🗆	bottles checked for pH:	
	ectly identified on Chain of	f Custody?	Yes	V	No 🗆	(<2 or >12 unless no	oted)
Is it clear what an	alyses were requested?	7.36.534	Yes		No 🗆		
4. Were all holding ti (If no, notify custor	mes able to be met? mer for authorization.)		Yes		No 🗆	Checked by: KPCA 10	21.3
oecial Handling							
	d of all discrepancies with	this order?	Yes		No 🗆	NA 🗹	
Person Noti	fied:	Date:				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
By Whom:		Via:	eMa	il \square P	hone Fax	☐ In Person	
Regarding:					none 🗀 r ax		
Client Instru	-						
3. Additional remark	s:						
7. Cooler Information Cooler No To	emp °C Condition S	eal Intact Seal No	Seal Da	te	Signed By		

Page 1 of 1

Policit Name Poli	Clall-Ol	Chain-or-Custody Record	I urn-Around I ime:	3: Z-1)ag					
	Client: DeVon	Vertex	□ Standard	Rush		HAL	L ENV	IRONM	- 1
			Project Name:					LABO	KAIOK
Description Project #: Pr	0	9	Papas F	27	4901 H	www.h	<u></u>	nental.com	
Sample Face Container Project Manager Container Project Manager Container Project Manager Container Contai	_				1000	AWNIIIS INE	ř.,	erque, NM 871	
Sampler Compliance Compli	Phone #:			1117		5-345-3975	Inal	305-345-4107	0.2.2.1
Sample Cooper February Cooper	email or Fax#:		Project Manager:		_		† ((;	
Sampler CD Sam	QA/QC Package:	☐ Level 4 (Full Validation)	Kent	Stanings	O / MRC	SWIS	OS '⁵Oc	JnəsdA\	
Fig. 20 Container Contai		z Compliance	(C)		DR(' ^z O	ļuəs	
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Time Matrix Sample Name Type and # Type T			Cooler Temp(includin	6-240-7-64	12D(£8 y	N ,18		
\(\lambda \) \(\l	Time			ervative HEAL No.	08:H91	d sHA	3)E, E		
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HALL ENVIRONMENTAL Control Con	Chain-of-Custody Record	Turn-Around Time: $Z-DQy$	Receive
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Sampler C		Project #:	- Albuquerque, NM 87109
Cocy Project Wanager: Cocy Compiler Compiler Cocy C	Phone #:	226-01417	505-545-5975 Fax 505-345-4107
Sandard Control Acont Sandardon Control Cont	email or Fax#:	Project Manager:	(i
Sampler CD		Kent	SO ^{¢†} 2O SIW2 SCB, ² O \ WKO
Figure F		1.CD	3082 H 1-1) 82703 1025, F
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	Project #:		4901 H	4901 Hawkins NE	ì	Albuquerque, NM 87109	8/2/2
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email or Fax#:	Project Manager		_	,	Analysis Request	Request	2:0
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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

November 03, 2022

Kent Stallings Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (575) 748-0176

FAX:

RE: Papas Fritas 27 CTB1 OrderNo.: 2210E68

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/29/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 11/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WES22-10 1'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/27/2022 9:30:00 AM

 Lab ID:
 2210E68-001
 Matrix: MEOH (SOIL)
 Received Date: 10/29/2022 8:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 8:30:03 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/1/2022 8:30:03 AM
Surr: DNOP	98.1	21-129	%Rec	1	11/1/2022 8:30:03 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	10/30/2022 1:29:59 AM
Surr: BFB	92.8	37.7-212	%Rec	1	10/30/2022 1:29:59 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	10/30/2022 1:29:59 AM
Toluene	ND	0.033	mg/Kg	1	10/30/2022 1:29:59 AM
Ethylbenzene	ND	0.033	mg/Kg	1	10/30/2022 1:29:59 AM
Xylenes, Total	ND	0.067	mg/Kg	1	10/30/2022 1:29:59 AM
Surr: 4-Bromofluorobenzene	99.5	70-130	%Rec	1	10/30/2022 1:29:59 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/31/2022 1:54:14 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

ple pH Not In Range Page 1 of 12

Date Reported: 11/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-07 2.5'

Project: Papas Fritas 27 CTB1 Collection Date: 10/27/2022 9:45:00 AM 2210E68-002 Lab ID: Matrix: MEOH (SOIL) **Received Date:** 10/29/2022 8:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 8:40:30 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/1/2022 8:40:30 AM
Surr: DNOP	97.4	21-129	%Rec	1	11/1/2022 8:40:30 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	10/30/2022 1:53:29 AM
Surr: BFB	89.9	37.7-212	%Rec	1	10/30/2022 1:53:29 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	10/30/2022 1:53:29 AM
Toluene	ND	0.033	mg/Kg	1	10/30/2022 1:53:29 AM
Ethylbenzene	ND	0.033	mg/Kg	1	10/30/2022 1:53:29 AM
Xylenes, Total	ND	0.066	mg/Kg	1	10/30/2022 1:53:29 AM
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	10/30/2022 1:53:29 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/31/2022 2:31:28 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value Ε
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 2 of 12

Date Reported: 11/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-11 2.5'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/27/2022 9:50:00 AM

 Lab ID:
 2210E68-003
 Matrix: MEOH (SOIL)
 Received Date: 10/29/2022 8:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 3:13:21 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/1/2022 3:13:21 AM
Surr: DNOP	97.8	21-129	%Rec	1	11/1/2022 3:13:21 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	10/30/2022 2:16:59 AM
Surr: BFB	87.4	37.7-212	%Rec	1	10/30/2022 2:16:59 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.016	mg/Kg	1	10/30/2022 2:16:59 AM
Toluene	ND	0.033	mg/Kg	1	10/30/2022 2:16:59 AM
Ethylbenzene	ND	0.033	mg/Kg	1	10/30/2022 2:16:59 AM
Xylenes, Total	ND	0.066	mg/Kg	1	10/30/2022 2:16:59 AM
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	10/30/2022 2:16:59 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/31/2022 3:08:42 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-27 3'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/27/2022 9:55:00 AM

 Lab ID:
 2210E68-004
 Matrix: MEOH (SOIL)
 Received Date: 10/29/2022 8:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 3:23:50 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	11/1/2022 3:23:50 AM
Surr: DNOP	97.6	21-129	%Rec	1	11/1/2022 3:23:50 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	10/30/2022 4:37:53 AM
Surr: BFB	91.5	37.7-212	%Rec	1	10/30/2022 4:37:53 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	10/30/2022 4:37:53 AM
Toluene	ND	0.035	mg/Kg	1	10/30/2022 4:37:53 AM
Ethylbenzene	ND	0.035	mg/Kg	1	10/30/2022 4:37:53 AM
Xylenes, Total	ND	0.070	mg/Kg	1	10/30/2022 4:37:53 AM
Surr: 4-Bromofluorobenzene	98.4	70-130	%Rec	1	10/30/2022 4:37:53 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/31/2022 3:21:06 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 11/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-30 3'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/27/2022 10:00:00 AM

 Lab ID:
 2210E68-005
 Matrix: MEOH (SOIL)
 Received Date: 10/29/2022 8:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	11/1/2022 3:34:21 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/1/2022 3:34:21 AM
Surr: DNOP	98.2	21-129	%Rec	1	11/1/2022 3:34:21 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/Kg	1	10/30/2022 5:48:06 AM
Surr: BFB	91.8	37.7-212	%Rec	1	10/30/2022 5:48:06 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.017	mg/Kg	1	10/30/2022 5:48:06 AM
Toluene	ND	0.034	mg/Kg	1	10/30/2022 5:48:06 AM
Ethylbenzene	ND	0.034	mg/Kg	1	10/30/2022 5:48:06 AM
Xylenes, Total	ND	0.068	mg/Kg	1	10/30/2022 5:48:06 AM
Surr: 4-Bromofluorobenzene	97.6	70-130	%Rec	1	10/30/2022 5:48:06 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	10/31/2022 3:33:31 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 11/3/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BES22-31 3'

 Project:
 Papas Fritas 27 CTB1
 Collection Date: 10/27/2022 10:05:00 AM

 Lab ID:
 2210E68-006
 Matrix: MEOH (SOIL)
 Received Date: 10/29/2022 8:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	11/1/2022 3:44:52 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	11/1/2022 3:44:52 AM
Surr: DNOP	91.7	21-129	%Rec	1	11/1/2022 3:44:52 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	10/30/2022 6:58:11 AM
Surr: BFB	93.4	37.7-212	%Rec	1	10/30/2022 6:58:11 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.015	mg/Kg	1	10/30/2022 6:58:11 AM
Toluene	ND	0.031	mg/Kg	1	10/30/2022 6:58:11 AM
Ethylbenzene	ND	0.031	mg/Kg	1	10/30/2022 6:58:11 AM
Xylenes, Total	ND	0.062	mg/Kg	1	10/30/2022 6:58:11 AM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	10/30/2022 6:58:11 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	59	mg/Kg	20	10/31/2022 3:45:55 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

rring Limit Page 6 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **2210E68** *03-Nov-22*

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: MB-71179 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 71179 RunNo: 92227

Prep Date: 10/31/2022 Analysis Date: 10/31/2022 SeqNo: 3312348 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-71179 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 71179 RunNo: 92227

Prep Date: 10/31/2022 Analysis Date: 10/31/2022 SeqNo: 3312349 Units: mg/Kg

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

Chloride 14 1.5 15.00 0 95.7 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 standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 7 of 12

Hall Environmental Analysis Laboratory, Inc.

ND

9.0

50

10.00

03-Nov-22

2210E68

WO#:

Client: Devon Energy
Project: Papas Fritas 27 CTB1

Motor Oil Range Organics (MRO)

Surr: DNOP

Sample ID: LCS-71171 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 71171 RunNo: 92198 Prep Date: 10/31/2022 Analysis Date: 10/31/2022 SeqNo: 3311075 Units: mq/Kq PQL SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result SPK value LowLimit Qual Diesel Range Organics (DRO) 46 15 50.00 n 92.2 64.4 127 Surr: DNOP 4.4 5.000 88.2 21 129

Sample ID: MB-71171 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 71171 RunNo: 92198 Prep Date: Analysis Date: 10/31/2022 10/31/2022 SeqNo: 3311076 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 15

Sample ID: LCS-71174 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 71174 RunNo: 92198 Prep Date: 10/31/2022 Analysis Date: 10/31/2022 SeqNo: 3312301 Units: %Rec Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 5.5 5.000 129

90.3

129

Sample ID: MB-71174 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: **PBS** Batch ID: 71174 RunNo: 92198 Prep Date: 10/31/2022 Analysis Date: 10/31/2022 SeqNo: 3312302 Units: %Rec Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: DNOP 9.7 10.00 96.8 21 129

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210E68** *03-Nov-22*

Client:	Devon Energy
Project:	Papas Fritas 27 CTB1

r upus 11	1143 27 6131								
Sample ID: mb	SampType: I	MBLK	Tes	stCode: EF	PA Method	8015D: Gaso	line Range)	
Client ID: PBS	Batch ID:	A92186	F	RunNo: 92	2186				
Prep Date:	Analysis Date:	10/29/2022	;	SeqNo: 33	309758	Units: mg/K	(g		
Analyte	Result PQI	_ SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5	.0							
Surr: BFB	940	1000		94.0	37.7	212			
Sample ID: 2.5ug gro lcs	SampType: I	LCS	Tes	stCode: EF	PA Method	8015D: Gaso	line Range	•	
Client ID: LCSS	Batch ID:	A92186	i	RunNo: 92	2186				
Prep Date:	Analysis Date:	10/29/2022	;	SeqNo: 33	309759	Units: mg/K	(g		
Analyte	Result PQI	_ SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26 5	.0 25.00	0	105	72.3	137			
Surr: BFB	2000	1000		203	37.7	212			
Sample ID: mb-II	SampType: I	MBLK	Tes	stCode: EF	PA Method	8015D: Gaso	line Range	•	
Client ID: PBS	Batch ID: I	B92186	ſ	RunNo: 92	2186				
Prep Date:	Analysis Date:	10/30/2022	;	SeqNo: 33	309782	Units: mg/K	(g		
Analyte	Result PQI	_ SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5	.0							
Surr: BFB	930	1000		92.6	37.7	212			
Sample ID: 2.5ug gro lcs-II	SampType: I	LCS	Tes	stCode: EF	PA Method	8015D: Gaso	line Range	9	
Client ID: LCSS	Batch ID: I	B92186	F	RunNo: 92	2186				
Prep Date:	Analysis Date:	10/30/2022	;	SeqNo: 33	309783	Units: mg/K	ίg		
Analyte	Result PQI	_ SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25 5	.0 25.00	0	99.4	72.3	137			
Surr: BFB	1900	1000		195	37.7	212			
Sample ID: 2210e68-004ams	SampType: I	vis	Tes	stCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: BES22-27 3'	Batch ID:	B92186	ſ	RunNo: 92	2186				
Prep Date:	Analysis Date:	10/30/2022	;	SeqNo: 33	309791	Units: mg/K	(g		
Analyte	Result PQI	_ SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
						-			

Sample ID:	2210e68-004amsd
Client ID:	BES22-27 3'
Prep Date:	

Gasoline Range Organics (GRO)

SampType: MSD

3.5

17.39

695.4

TestCode: EPA Method 8015D: Gasoline Range

130

212

70

37.7

Client ID: **BES22-27 3'** Batch ID: **B92186** RunNo: **92186**

17

1300

Analysis Date: 10/30/2022 SeqNo: 3309792 Units: mg/Kg

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

0

Qualifiers:

Surr: BFB

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

96.1

191

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2210E68 03-Nov-22

Qual

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: 2210e68-004amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BES22-27 3' Batch ID: **B92186** RunNo: 92186

Prep Date: SeqNo: 3309792 Analysis Date: 10/30/2022 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	(
Gasoline Range Organics (GRO)	16	3.5	17.39	0	90.6	70	130	5.83	20	
Surr: BFB	1300		695.4		182	37.7	212	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210E68** *03-Nov-22*

Client:	Devon Energy
Project:	Papas Fritas 27 CTB1

Sample ID: mb	SampType: MBLK			Tes	tCode: EF					
Client ID: PBS	Batch ID: C92186			F	RunNo: 92186					
Prep Date:	Analysis [Date: 10	/29/2022	5	SeqNo: 33	309797	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		98.7	70	130			

Sample ID: 100ng btex Ics	Samp	Гуре: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batcl	h ID: C9 2	2186	F	RunNo: 92					
Prep Date:	Analysis [Date: 10	/29/2022	5	SeqNo: 3309798			Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	105	80	120			
Toluene	1.1	0.050	1.000	0	105	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	70	130			

Sample ID: mb-II	SampT	уре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batcl	F	RunNo: 92							
Prep Date:	Analysis D	Date: 10	/30/2022	5	SeqNo: 33	309819	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.2	70	130			

Sample ID: 100ng btex lcs-II	SampType: LCS TestCode: EPA Method					PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	n ID: D9 2	2186	F	RunNo: 92					
Prep Date:	Analysis [Date: 10	/30/2022	5	SeqNo: 33	309820	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2210E68** *03-Nov-22*

Client: Devon Energy

Project: Papas Fritas 27 CTB1

Sample ID: 2210e68-005ams	Samp	SampType: MS			tCode: EF					
Client ID: BES22-30 3'	Batc	Batch ID: D92186			RunNo: 92					
Prep Date:	Analysis [Analysis Date: 10/30/2022			SeqNo: 3309828			g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.62	0.017	0.6752	0	92.6	68.8	120			
Toluene	0.64	0.034	0.6752	0	94.8	73.6	124			
Ethylbenzene	0.64	0.034	0.6752	0	94.8	72.7	129			
Xylenes, Total	1.9	0.068	2.026	0.01249	93.6	75.7	126			
Surr: 4-Bromofluorobenzene	0.62		0.6752		92.2	70	130			

Sample ID: 2210e68-005amso	Samp	Type: MS	SD	TestCode: EPA Method 8021B: Volatiles						
Client ID: BES22-30 3'	Bato	h ID: D9 :	2186	F						
Prep Date:	Analysis	Date: 10	/30/2022	9	309829	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.67	0.017	0.6752	0	99.5	68.8	120	7.24	20	
Toluene	0.68	0.034	0.6752	0	101	73.6	124	6.18	20	
Ethylbenzene	0.68	0.034	0.6752	0	101	72.7	129	6.76	20	
Xylenes, Total	2.0	0.068	2.026	0.01249	99.8	75.7	126	6.42	20	
Surr: 4-Bromofluorobenzene	0.68		0.6752		100	70	130	0	0	

Qualifiers:

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107
Website: ways hallenvironmental com

Sample Log-In Check List

Released to Imaging: 3/7/2023 9:56:12 AM

		neosne. wi	vv.nauen vironmenia i	.com		
Client Name:	Devon Energy	Work Order Nur	nber: 2210E68		RcptNo: 1	
Received By:	Tracy Casarrubias	10/29/2022 8:45:0	0 AM			
Completed By:	Tracy Casarrubias	10/29/2022 9:23:5	52 AM			
Reviewed By:	,					
Chain of Cust	tody		_			
1. Is Chain of Cu	stody complete?		Yes 🔽	No 🗌	Not Present 📙	
2. How was the s	sample delivered?		Courier			
<u>Log In</u> 3. Was an attem	pt made to cool the samp	les?	Yes 🗹	No 🗌	NA 🗌	
	•			No 🗌	na 🗆	
4. vvere all samp	les received at a tempera	ture of >0° C to 6.0°C	Yes 🗸	NO E	NA L	
5. Sample(s) in p	roper container(s)?		Yes 🗹	No 🗌		
6. Sufficient samp	ole volume for indicated to	est(s)?	Yes 🗹	No 🗀		
7 Are samples (e	except VOA and ONG) pro	pperly preserved?	Yes 🗸	No 🗌		
8. Was preservat	ive added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. Received at lea	ast 1 vial with headspace	<1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	_
10. Were any sam	ple containers received b	roken?	Yes 🗌	No 🗹	# of preserved	
	rk match bottle labels?		Yes 🗹	No 🗆	bottles checked for pH:	2
	ncies on chain of custody		Yes 🗹	No 🗆	(<2 or>) Adjusted?	2 unless noted)
	orrectly identified on Chai analyses were requested	· ·	res v Yes √	No 🗆	. /	
	g times able to be met?	f	Yes 🗹	No 🗆	Checked by:	10/28/22
(If no, notify cu	stomer for authorization.)			L	/	
	ng (if applicable)				/	
15. Was client not	ified of all discrepancies v	with this order?	Yes 🗌	No 🖾	NA 🗹	
Person i	Notified:	Date	e: [
By Who	m:	Via:	eMail F	hone 🗌 Fax	☐ In Person	
Regardi	ng:					
Client In	structions:					
16. Additional ren	narks:					
17. Cooler Inform						
Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By		
.1	5.4 Good	Yes	1			

Received by OCD: 12/2/2022 2:02:23 PM

hain-of-Custody Record	Turn-Around Time:	JA0H-42		IAH	-	2	POR	M	FNVTRONMENTAL	
Client: \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	□ Standard	⊡ Ŕush		A	ALY	SIS	AB	ORA	ANALYSIS LABORATORY	
		1.5		MM —	www.hallenvironmental.com	vironme	ental.cor	П		
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	Project #:		Tel.	Tel. 505-345-3975		Fax 5(Fax 505-345-4107	107		
Phone #:	725-01417	Appeter to seem tradition Soft.			Ana	ysis R	Analysis Request			
email or Fax#:	Project Manager:	Section 1 to 1			*O\$		(ju		TO THE OWNER OF THE OWNER	
QA/QC Package:	Kent Si	Stallings	S08) SM \		S ԠC		esq _V			
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	Cooler Temp(including CF):	53t0 1 54 (°C)	191	qjəy	M 8	AO\				
	Container Preserva	ative HEAL No.	08:H	9 18 A) 8(B sH,	AR	() 09	70 (s			
Date Time Matrix Sample Name	Type and # Type	221	ďΤ	ŒΕ	ВС	28		10, 10, 71		П
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Marie Care Marie Care		Sh:8 21/10/00			502	428602	141			
Thecessary, sar	pontracted to other accredited lat	boratories. This serves as notice of thi	possibility. An	y sub-contrac	ed data will	be clearly	notated on i	the analytics	I report.	7

ATTACHMENT 8



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Papa Fritas 27 CTB 1, 30 day extension

2 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com> Fri, Oct 21, 2022 at 10:37 AM To: "Enviro, OCD, EMNRD" <OCD.Enviro@state.nm.us>, "Bratcher, Mike, EMNRD" <Mike.Bratcher@state.nm.us>, "Billings, Chad, EMNRD" < chad.hensley@state.nm.us>

Vertex is requesting a 30 day extension for Papa Fritas 27 CTB 1

nAPP2210924425, release date 4/18/2022

and

nAPP2127146416, release date 9/28/2021,

We are currently excavating and have collected confirmation samples. The excavation is almost complete and we are generating the report with the expectation that it will be ready within 30 days.

Please let me know if you have any questions or concerns.

Thank you,

Kent

Kent Stallings P.G.

Project Manager

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

P 575,725,5001 C 346.814.1413

www.vertex.ca

Confidentiality Notice: This message and any attachments are solely for the intended recipient and may contain confidential or privileged information. If you are not the intended recipient, any disclosure, copying, use, or distribution of the information included in this message and any attachment is prohibited. If you have received this communication in error, please notify us by reply email and immediately and permanently delete this message and any attachments. Thank you.

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

Mon, Oct 24, 2022 at 1:40 PM

Kent,

Remediation plans were due for incident NAPP2210924425 on 07/18/2022 and incident NAPP2127146416 on 12/28/2021. Due to the requests being outside the 90 day guideline, the extension requests are denied. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave. | 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: Friday, October 21, 2022 10:37 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>;

Billings, Bradford, EMNRD < Bradford.Billings@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Hensley, Chad, EMNRD <Chad.Hensley@emnrd.nm.gov>

Subject: [EXTERNAL] Papa Fritas 27 CTB 1, 30 day extension

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[Quoted text hidden]

ATTACHMENT 9

DEVON ENERGYPapas Fritas 27 CTB 1

Work Plan - Preliminary

UL O, Section 27, T23S, R29E Eddy County, New Mexico

> NAPP2127146416 NAPP2129171458

October 6, 2021



Prepared for:

Devon Energy 6488 Seven Rivers Hwy Artesia, NM 88210

By:

Safety & Environmental Solutions, Inc. 703 East Clinton Hobbs, New Mexico 88240 (575) 397-0510

Company Contacts

Representative	Company	Telephone	E-mail
Wes Mathews	Devon Energy	575-578-6195	Wesley.Mathews@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was contracted by Devon Energy to assess a release at the Papas Fritas 27 CTB 1 location. This site is situated in UL O, Section 27, Township 23S and Range 29E, in Lea County New Mexico. We are addressing the release in this plan which will be remediated upon plan approval.

According to the NOR for incident NAPP2113158013, corrosion on a fitting resulted in the release of 150 bbls of produced water. A vacuum truck was dispatched and recovered 125 bbls free-standing fluid.

This workplan addresses two incident numbers, NAPP2113158013 & NAPP2127146416. This single event was documented or reported twice, one is a duplicate.

Surface and Ground Water

According to the NMOCD Oil and Gas Map, there is no surface water within 3,000 feet of this location and spill areas. Depth to groundwater determination was not successfully established based on the guidelines required by NMOCD; therefore, Devon will remediate these spills according to the most stringent criteria set forth by NMOCD in NMAC 19.15.29.

Characterization

The release has been fully delineated both vertically and horizontally, which includes establishing horizontal and vertical extent of delineation to the most stringent standard of 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene.

Release Area (NAPP2113158013), Investigation

SESI personnel tracked and mapped the release and sampled the area to achieve both vertical and horizontal delineation. Samples were taken at the surface and 1-foot intervals until field testing indicated the samples to meet target levels. The horizontal extent samples are denoted on the map with an H beside the sample number. The samples were properly preserved and packaged and sent to Hall Environmental Labs for testing. The results of the analytical are captured in the summary table below.

Table 1 – Field Test Samples

Sample ID	Chloride	TPH	Sample ID	Chloride	TPH
AH-1 @ Surf	NT	NT	AH-9 @ Surf	NT	NT
AH-1 @ 1'	2220	NT	AH-9 @ 1'	<108	07
AH-1 @ 2'	160	01			
			AH-10 @ Surf	NT	NT

AH-2 @ Surf	NT	NT		AH-10 @ 1'	1532	NT
AH-2 @ 1'	2604	NT		AH-10 @ 2'	220	12
AH-2 @ 2'	1648	NT		AH-11 @ Surf	NT	NT
AH-2 @ 3'	160	05		AH-11 @ 1'	1648	NT
				AH-11 @ 2'	108	04
AH-3 @ Surf	NT	NT				
AH-3 @ 1'	160	03		AH-12 @ Surf	NT	NT
				AH-12 @ 1'	1532	NT
				AH-12 @ 2'	188	10
AH-4 @ Surf	NT	NT				
AH-4 @ 1'	1648	NT		AH-13 @ Surf	NT	NT
AH-4 @ 2'	188	05		AH-13 @ 1'	1772	NT
				AH-13 @ 2'	220	09
AH-5 @ Surf	NT	NT				
AH-5 @ 1'	1772	NT		AH-14 @ Surf	NT	NT
AH-5 @ 2'	188	02		AH-14 @ 1'	1648	NT
				AH-14 @ 2'	<108	10
AH-6 @ Surf	NT	NT				
AH-6 @ 1'	<108	01		AH-15 @ Surf	NT	NT
				AH-15 @ 1'	2604	NT
AH-7 @ Surf	NT	NT		AH-15 @ 2'	<108	03
AH-7 @ 1'	1772	NT				
AH-7 @ 2'	188	07				
AH-8 @ Surf	NT	NT				
AH-8 @ 1'	1648	NT				
AH-8 @ 2'	252	04				
		Horizo	ntal Sam	nples		
Sample ID	Chloride	TPH		Sample ID	Chloride	TPH
H-N Surf 1	<108	NT		H-S Surf	252	NT
H-N Surf 2	<108	NT		H-E Surf 1	108	NT
H-W Surf 1	<108	NT		H-E Surf 2	252	NT
H-W Surf 2	220	NT				
H-W Surf 3	220	NT				
H-W Surf 4	252	NT				

Release Area (NAPP2113158013), Action Plan

Based on the results above for vertical extent samples AH-1 through AH-15, SESI respectfully recommends the entire leak of release area be remediated to a depth of 2 to 3 foot where applicable. The excavation area is outlined in the map of this release located in this report. Once this remediation plan is approved, Devon will perform the remediation and all removed soil will be disposed of in an OCD-approved landfill. Devon will then conduct both bottom and sidewall confirmation sampling to ensure all contaminated materials have been removed to the most stringent criteria established by NMOCD. Upon receipt of lab results verifying all contaminants have been removed, Devon will backfill the site with uncontaminated soil. If it becomes apparent that facility equipment and/or structure integrity is compromised, SESI respectfully requests deferment of those areas until a later date. If this happens, pictures of the area of equipment/structures will be provided to provide evidence of deferral necessity.

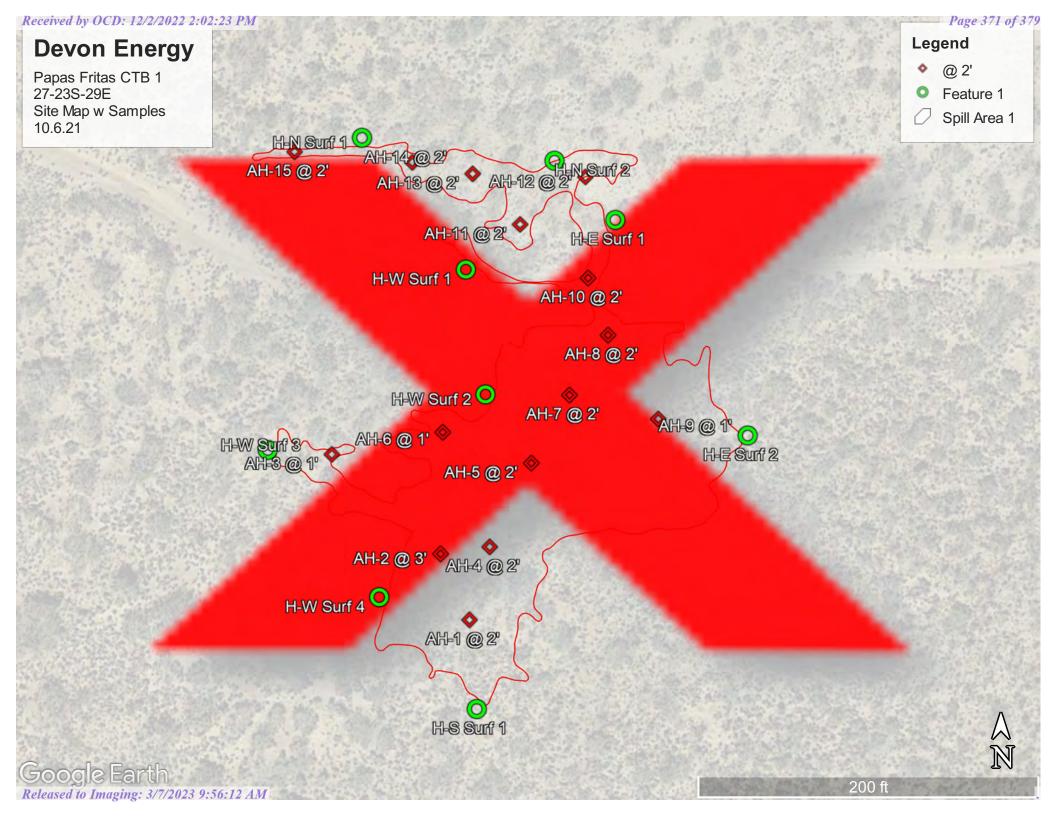
SESI, on behalf of Devon respectfully submits this remediation plan and requests approval at your earliest convenience. Upon approval, remediation efforts will be conducted within 90 days.

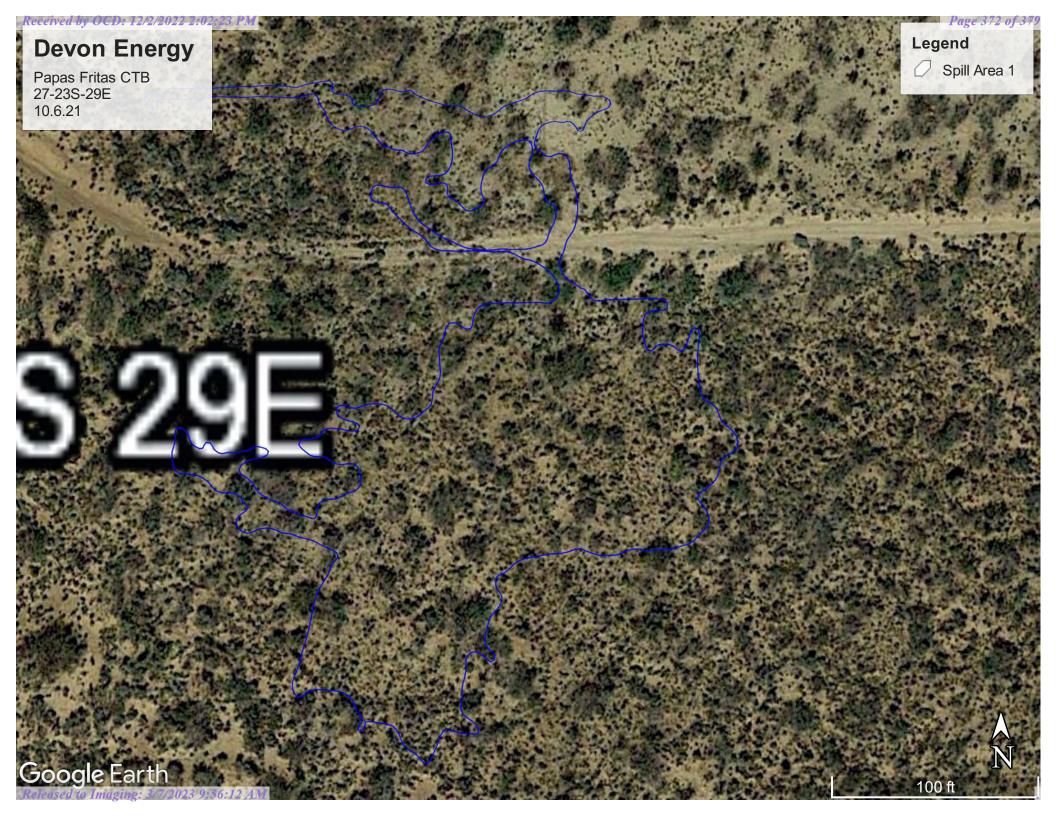
Supplemental and Supporting Documentation

Evidence Document 1: Map of Release area, with vertical and horizontal extent sample locations

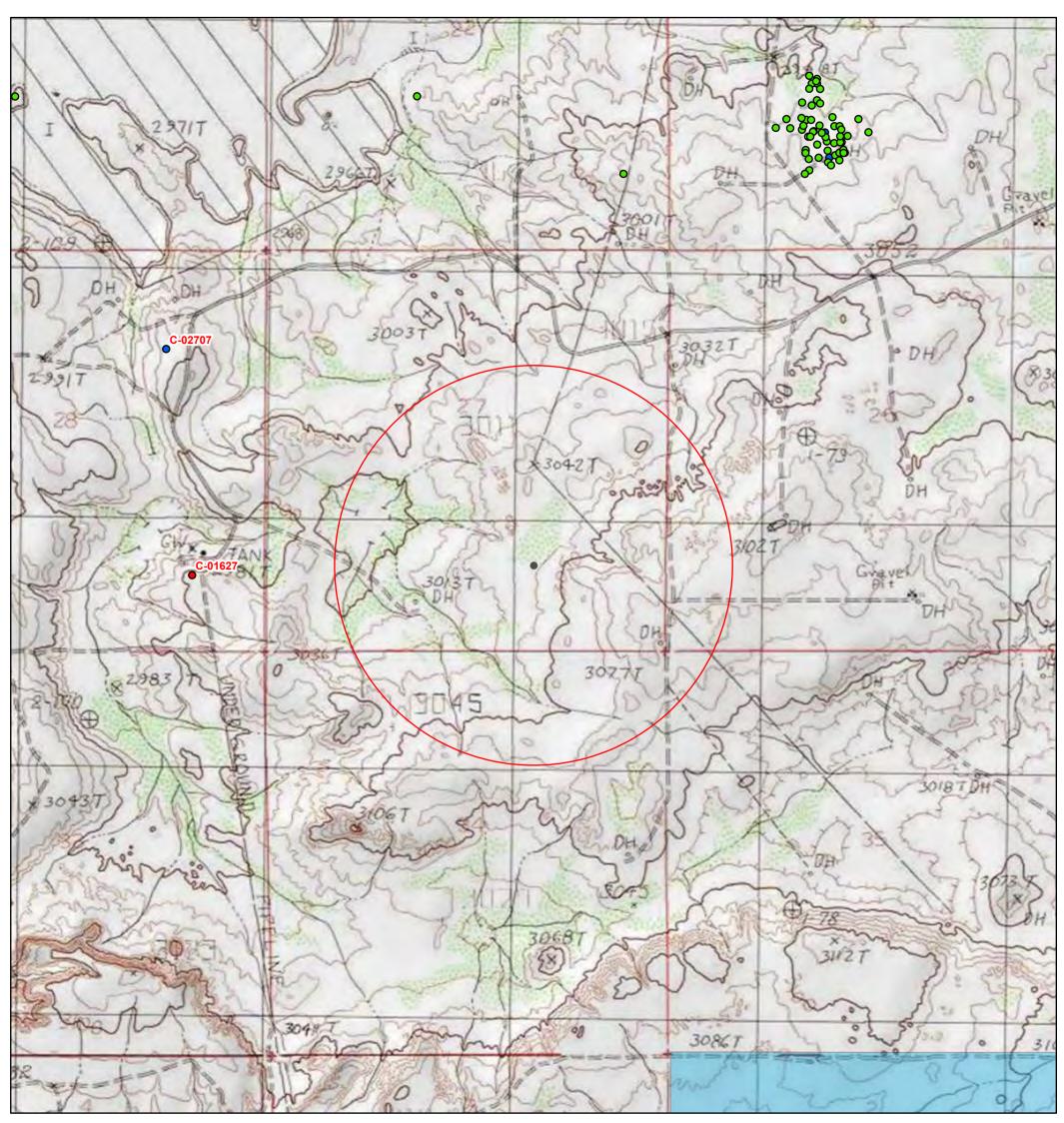
Evidence Document 2: NMOCD Oil and Gas Topo map detailing area water features Evidence Document 3: BLM Cave Karst map showing location in low potential area Evidence Document 4: FEMA demonstrating minimal flood hazards for this area

Evidence Document 5: Lab analysis for Release area, 6/16/21





OSE PUBLIC PRINT



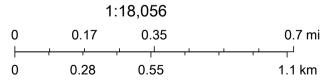
9/29/2021, 8:16:00 AM GIS WATERS PODs

- Active
- Pending
- Plugged
- OSE District Boundary

New Mexico State Trust Lands

Both Estates

SiteBoundaries



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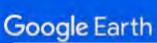


Received by OCD: 12/2/2022 2:02:23 PM Devon Energy

Papas Fritas CTB J-27-23S-29E Karst Map - Medium

Papas Fritas CTB

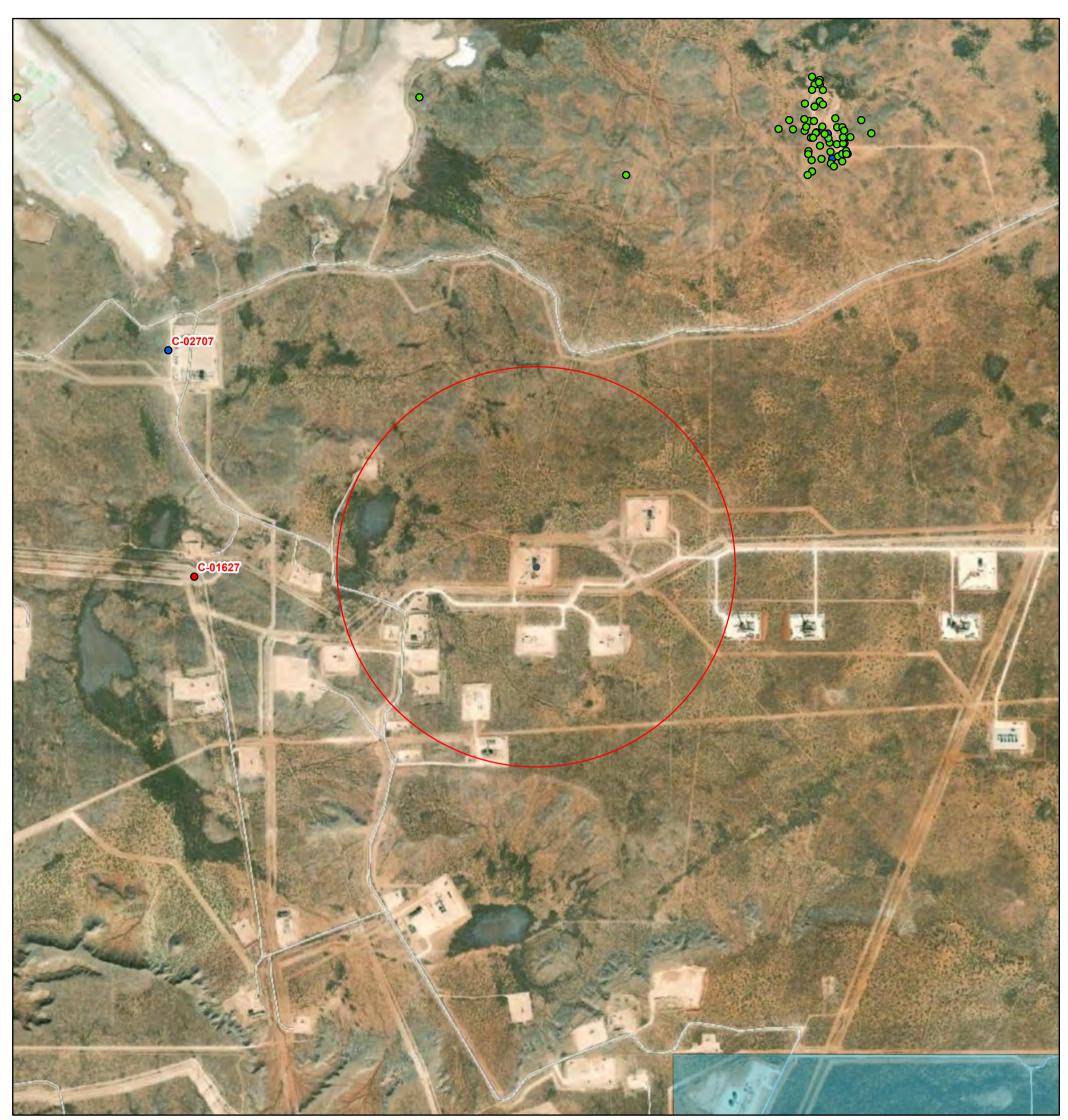
32.27164100, -103.9697222



Legend of 379

Feature 1

OSE PUBLIC PRINT



9/29/2021, 8:08:37 AM GIS WATERS PODs

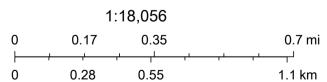
- Active
- Pending
- Plugged
- OSE District Boundary

New Mexico State Trust Lands

Во

Both Estates

SiteBoundaries



Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar



National Water Information System: Web Interface

USGS Water Resources

Data Category:			Geogra	aphic Area:		
roun	ater	~	е	e ico	~	

Click to hideNews Bulletins

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

Click to hide state-specific text

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

Search Results -- No sites found

No sites were found for groundwater level data using your search criteria.

The sites you requested may be available offline. For more information, contact <u>USGS Water Data Inquiries</u>.

Site name contains string = 23S.29E.27

Minimum number of levels = 1

Use the "Back" button on your browser to change your search criteria.

eturn To re ious age

Received by OCD: 12/2/2022 2:02:23,PM National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual**

OTHER AREAS OF FLOOD HAZARD

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

Area of Undetermined Flood Hazard Zone D

NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs

- - - Channel, Culvert, or Storm Sewer **GENERAL**

STRUCTURES | LILLIL Levee, Dike, or Floodwall

20.2 Cross Sections with 1% Annual Chance Water Surface Elevation **Coastal Transect** Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary

OTHER **FEATURES**

Profile Baseline Hydrographic Feature

--- Coastal Transect Baseline

Digital Data Available

No Digital Data Available

Unmapped

MAP PANELS

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/7/2021 at 12:16 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 163423

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	163423
	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 #NAPP2129171458 PAPAS FRITAS 27 CTB 1, thank you. This closure is approved.	3/7/2023