Received by OCD: 1/12/2023 9:59:43 AM Form C-141 State of New Mexico

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Oil Conservation Division

	Page 1 of 12	70
Incident ID	NPAC0717753293	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>< 50</u> (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 🗴 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗶 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗴 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🗶 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗶 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗴 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 🗴 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗶 No
Are the lateral extents of the release within a 100-year floodplain?	Yes X No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🗶 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 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 ¹/₂-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	0: 1/12/2023 9:59:43 AM State of New Mexico			Page 2 of 170
			Incident ID	NPAC0717753293
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
regulations all ope public health or th failed to adequatel addition, OCD acc and/or regulations Printed Name: Signature: email:	at the information given above is true and complete to the be erators are required to report and/or file certain release notific the environment. The acceptance of a C-141 report by the OC ly investigate and remediate contamination that pose a threat ceptance of a C-141 report does not relieve the operator of re s. Dale Woodall Le Woodall dale.woodall@dvn.com	cations and perform co D does not relieve the to groundwater, surfa	prective actions for release operator of liability shou ce water, human health o iance with any other fede rofessional	ses which may endanger ald their operations have r the environment. In
OCD Only Received by:	Jocelyn Harimon	Date: 01	/12/2023	

Oil Conservation Division

Incident ID	NPAC0717753293
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.

<u>Closure Report Attachment Checklist</u>: 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 of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

X Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

X Description of remediation activities

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

Printed Name:	Dale Woodall	Title: Env. Professional		
Signature: Dals	. Woodall	Date: 1/12/2023		
email: da	ale.woodall@dvn.com	Telephone: 575-748-1838		
OCD Only				
Received by:	Jocelyn Harimon	Date:01/12/2023		
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.				
Closure Approved b	oy: Ashley Maxwell	Date: 1/17/2023		
Printed Name: As	shley Maxwell	Title: Environmental Specialist		

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August 6, 2020

Vertex Project #: 20E-00141-012

Spill Closure Report:	Red Bull 31 State #001	
	Unit N, Section 31, Township 23 South, Range 35 East	
	County: Lea	
	API: 30-025-36798	
	Tracking Number: NPAC0717753293	
Prepared For:	Devon Energy Production Company	
	6488 Seven Rivers Hwy	

Artesia, New Mexico 88210

New Mexico Oil Conservation Division – District 1 – Hobbs

1625 North French Drive Hobbs, New Mexico 88240

Devon Energy Production Company (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a spill assessment and remediation for a produced water release that occurred on February 23, 2007, at Red Bull 31 State #001, API 30-025-36798 (hereafter referred to as "Red Bull"). Devon provided notification of the release to New Mexico Oil Conservation Division (NM OCD) District 1 and the New Mexico State Land Office (SLO), who owns the property, on February 26, 2007. It does not appear that there is an initial C-141 Release Notification on file with the NM OCD; however incident details obtained from the NM OCD Permitting website are included as Attachment 1. The NM OCD tracking number assigned to this incident is NPAC0717753293.

This letter provides a description of the spill assessment and remediation activities, and demonstrates that closure criteria established in 19.15.29.12 *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) have been met and all applicable regulations are being followed. This document is intended to serve as the final report to obtain approval from NM OCD for closure of this release.

Incident Description

On February 23, 2007, a release occurred at Devon's Red Bull site due to corrosion in the fire tubing on a heater treater. This incident resulted in the release of approximately 4 barrels (bbls) of produced water into the production equipment's unlined gravel containment and onto the wellpad. Upon discovery of the release, the wellhead and heater treater were shut in and the corrosion was repaired. No produced water was recovered. No oil or produced water were released offlease, nor into undisturbed areas or waterways.

Site Characterization

The release at Red Bull occurred on state-owned land, N 32.2574463, W 103.4067612, approximately 15 miles northwest of Jal, New Mexico. The legal description for the site is Unit N, Section 31, Township 23 South, Range 35 East, Lea 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. An aerial photograph and site schematic are included in Attachment 2.

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Red Bull is typical of oil and gas exploration and production sites in the western portion of the Permian Basin, and is currently used for oil and gas production, and storage. The following sections specifically describe the area surrounding the constructed wellpad.

The surrounding landscape is associated with low knolls, ridges and escarpments common to the plains, and is not prime farmland. The climate is semi-arid, with average annual precipitation ranging between 10 and 12 inches. The historic plant community has had the aspect of a grassland/shrub mix, dominated by black grama and sideoats grama, but with shrubs, such as creosotebush, mesquite and catclaw mimosa, common throughout. Grass cover is fairly uniform; however, surface gravel, cobble and bare ground make up a large percent of the total ground cover (United States Department of Agriculture, Natural Resources Conservation Service, 2020). Limited to no vegetation is allowed to grow on the compacted wellpad.

The Geological Map of New Mexico indicates the surface geology at Red Bull is comprised primarily of Qp – piedmont alluvial deposits from Holocene to lower Pleistecene (New Mexico Bureau of Geology and Mineral Resources, 2020). The National Resources Conservation Service Web Soil Survey determines the soil at the site to be Kimbrough gravelly loam, which is characterized by shallow gravelly loam and loam over cemented material. This type of soil, typically found at elevations of 2,500 to 4,800 feet above sea level, tends to be well-drained with high runoff and low available moisture in the soil profile (United States Department of Agriculture, Natural Resources Conservation Service, 2020). There is low potential for karst geology to be present near Red Bull, though some erosional karst is possible (United States Department of the Interior, United States Geological Survey, 2020).

There is no surface water located at Red Bull. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 0.2 miles northwest of the site (United States Fish and Wildlife Service, 2020). At Red Bull, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes, or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

The nearest recent well is a 2019 New Mexico Office of the State Engineer (NM OSE) well located 1 mile northeast of the site. Data for that well shows a depth to groundwater of 320 feet below ground surface (bgs). A second NM OSE well, located approximately 3.6 miles west of the site, shows a depth to groundwater of 475 feet bgs (New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System, 2020). Documentation pertaining to site characterization and depth to groundwater determination is included in Attachment 3.

Closure Criteria Determination

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

Based on data included in the closure criteria determination worksheet, the release at Red Bull is not subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC. As the nearest groundwater well is farther than a ½-mile from the release site, the depth to groundwater at Red Bull cannot be accurately determined and the closure criteria for the site are determined to be associated with the following constituent concentration limits.

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

Table 1. Closure Criteria for Soils Impacted by a Release		
Depth to Groundwater	Constituent	Limit
	Chloride	600 mg/kg
	TPH ¹	100 mg/kg
< 50 feet	(GRO + DRO + MRO)	100 mg/kg
	BTEX ²	50 mg/kg
	Benzene	10 mg/kg

¹Total petroleum hydrocarbons (TPH) = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO) ²Benzene, toluene, ethylbenzene and xylenes (BTEX)

Remedial Actions

Spill inspection, site characterization and remediation activities at Red Bull were completed by Vertex on March 16, 2020. The Daily Field Reports (DFRs) and field screening data associated with the site visits are included in Attachment 4. Using initial soil sampling laboratory data as presented in Table 2 (Attachment 5), the release was delineated as presented on Figure 1 (Attachment 2). The impacted area was determined to be approximately 153 feet long and 180 feet wide; the total affected area was determined to be 8,750 square feet.

Hand excavation of the contaminated soil from the tank battery and a surface scrape of the wellpad was conducted on March 16, 2020, with a Vertex representative on-site to conduct field screening to guide the excavation and determine the final horizontal and vertical extents of the excavation area as presented on Figure 2 (Attachment 2). On June 24, 2020, Vertex provided 48-hour notification of confirmatory sampling to NM OCD and the SLO (Attachment 6), as required by Subparagraph (a) of Paragraph (1) of Subsection D 19.15.29.12 NMAC. On June 29, 2020, Vertex was on-site to conduct confirmatory sampling. A total of 43 five-point composite samples was collected from the base and side walls of the excavation area. 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 NM OCD approval. The confirmatory samples were placed into laboratory-provided containers and submitted to a National Environmental Laboratory Accreditation Program-approved laboratory for chemical analysis.

Laboratory analyses included Method 300.0 for chlorides, Method 8021B for volatile organics, including BTEX, and EPA Method 8015 for TPH, including MRO, DRO and GRO. Confirmatory sampling analytical data are summarized in Table 3 (Attachment 5). Laboratory data reports and chain of custody forms are included in Attachment 7.

A GeoExplorer 7000 Series Trimble GPS unit, or equivalent, was used to map the approximate center of each of the five-point composite samples. The confirmatory sampling locations are presented on Figure 2 (Attachment 2).

Closure Request

Vertex recommends no additional remediation action to address the release at Red Bull. Laboratory analyses of the confirmatory samples showed constituent of concern concentration levels below NM OCD closure criteria for areas where depth to groundwater is less than 50 feet. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site.

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Vertex requests that this incident (NPAC0717753293) 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 NM OCD requirements to obtain closure on the February 23, 2007, release at Red Bull.

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 505.506.0040 or ngordon@vertex.ca.

Sincerely,

latalie fordon

Natalie Gordon PROJECT MANAGER

Attachments

- Attachment 1. NM OCD Incident Documentation
- Attachment 2. Figures
- Attachment 3. Closure Criteria for Soils Impacted by a Release Research Determination Documentation
- Attachment 4. Daily Field Report(s) with Photographs
- Attachment 5. Characterization and Confirmatory Sampling Laboratory Data Tables
- Attachment 6. Required 48-hr Notification of Confirmatory Sampling to Regulatory Agencies
- Attachment 7. Laboratory Data Reports/Chain of Custody Forms

References

- New Mexico Bureau of Geology and Mineral Resources. (2020). *Interactive Geologic Map.* Retrieved from http://geoinfo.nmt.edu.
- New Mexico Office of the State Engineer, New Mexico Water Rights Reporting System. (2020). *Water Column/Average* Depth to Water Report. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/waterColumn.html
- New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.
- United States Department of Agriculture, Natural Resources Conservation Service. (2020). *Web Soil Survey*. Retrieved from https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx.
- United States Department of the Interior, United States Geological Survey. (2020). *Caves and Karst in the U.S. National Park Service*. Retrieved from https://www.arcgis.com/home/webmap/viewer.html?webmap=14675403c 37948129acb758138f2dd1e
- United States Fish and Wildlife Service. (2020). *National Wetlands Inventory*. Retrieved from https://www.fws.gov/ wetlands/data/Mapper.html

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.

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ATTACHMENT 1

SIGN-IN HELP

Searches Operator Data

Hearing Fee Application

OCD Permitting

Home Searches Incidents Incident Details

NPAC0717753293 2007 A SWS @ 30-025-36798

General Incident Ir	nformation		Quick Links
			General Incident Information
Site Name:			• <u>Materials</u>
Well:	[<u>30-025-36798</u>] RED BULL 31 STATE #001		<u>Events</u>
Facility:			Orders
Operator:	[166111] DEVON ENERGY PRODUCTION CO.		Associated Images
Status:	Closure Not Approved	Severity:	 Incident Files (0)
Туре:	Produced Water Release	Surface Owner:	Well Files (23)
District:	Hobbs	County: Lea (25)	• <u>vven Files (23)</u>
			New Searches
Incident Location:	N-31-23S-35E 1300 FSL 2610 FWL		● <u>New Facility Search</u>
Lat/Long:	32.2574463,-103.4067612 NAD83		 <u>New Incident Search</u> ^t
Directions:			● <u>New Operator Search</u> 🤟
			● <u>New Pit Search</u> %
			● <u>New Spill Search</u> ♦
Notes			• <u>New Tank Search</u> &
Source of Referral:	Industry Rep	Action / Escalation: Operator Handled - No Compliance Written	● <u>New Well Search</u>
Resulted In Fire:		Will or Has Reached Watercourse:	
Endangered Public H	ealth:	Property Or Environmental Damage:	
Contact Details			—
Contact Details			
Contact Name:		Contact Title:	
Event Dates			
Date of Discovery:	02/23/2007	OCD Notified of Major Release: 02/26/2007	
Extension Date:	11/15/2018	Cancelled Date:	
Initial C-141 Received	1:		
Characterization Rep	ort Received:	Characterization Report Approved:	

.

SIGN-IN HELP

Searches Operator Data Hearing Fee Application

Volume Cause Source Material Units
Unk. Spilled Recovered Lost Corrosion Separator Produced Water 4 0 4 BBL

Incident Events		
	Date	Detail
	00/00/0007	
	06/26/2007	corrosion in firetube on heater treater

Orders		
No Orders Found		

New Mexico Energy, Minerals and Natural Resources Department | Copyright 2012 1220 South St. Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220

EMNRD Home OCD Main Page OCD Rules Help

Received by OCD: 1/12/2023 9:59:43 AM State of New Mexico

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Oil Conservation Division

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Incident ID	NPAC0717753293	
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Facility ID Application ID

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Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗴 No
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Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗶 No
Are the lateral extents of the release within a 100-year floodplain?	Yes X No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🗶 No

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- × Field data
- x Data table of soil contaminant concentration data
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- \mathbf{x} Determination of water sources and significant watercourses within $\frac{1}{2}$ -mile of the lateral extents of the release
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- х Topographic/Aerial maps
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Received by OCD: 1/12/202	3 9:59:43 AM State of New Mexico			Page 14 of 1 7
			Incident ID	NPAC0717753293
Page 4	Oil Conservation Division		District RP	
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public health or the environme failed to adequately investigat	equired to report and/or file certain release noti ent. The acceptance of a C-141 report by the C e and remediate contamination that pose a thre a C-141 report does not relieve the operator of	DCD does not relieve the eat to groundwater, surface	operator of liability sho ce water, human health c	uld their operations have or the environment. In
Printed Name: D	ale Woodall	Title: Env. Pr	ofessional	
Signature: Dale Wo	odall	Date: 1/12/202	23	
email: <u>dale.woo</u>	dall@dvn.com	Telephone:	575-748-1838	
OCD Only				
Received by:		Date:		

Page 6

Oil Conservation Division

Incident ID	NPAC0717753293
District RP	
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Closure

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

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X Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

X Description of remediation activities

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

-	Dale Woodall	Title: Env. Professional
Signature: <u>Da</u> email:	dale.woodall@dvn.com	Date: 1/12/2023 Telephone: 575-748-1838
OCD Only		
Received by:		Date:
remediate conta		bility should their operations have failed to adequately investigate and human health, or the environment nor does not relieve the responsible ulations.
Closure Approv	ed by:	Date:
Printed Name		Title

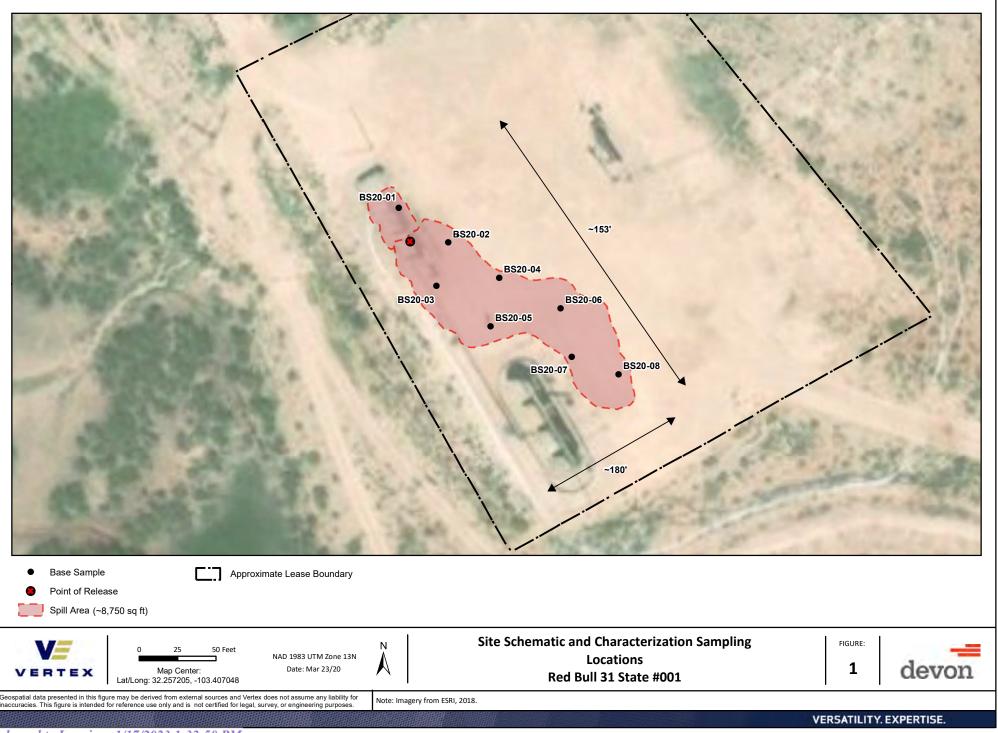
ATTACHMENT 2

Bull 31

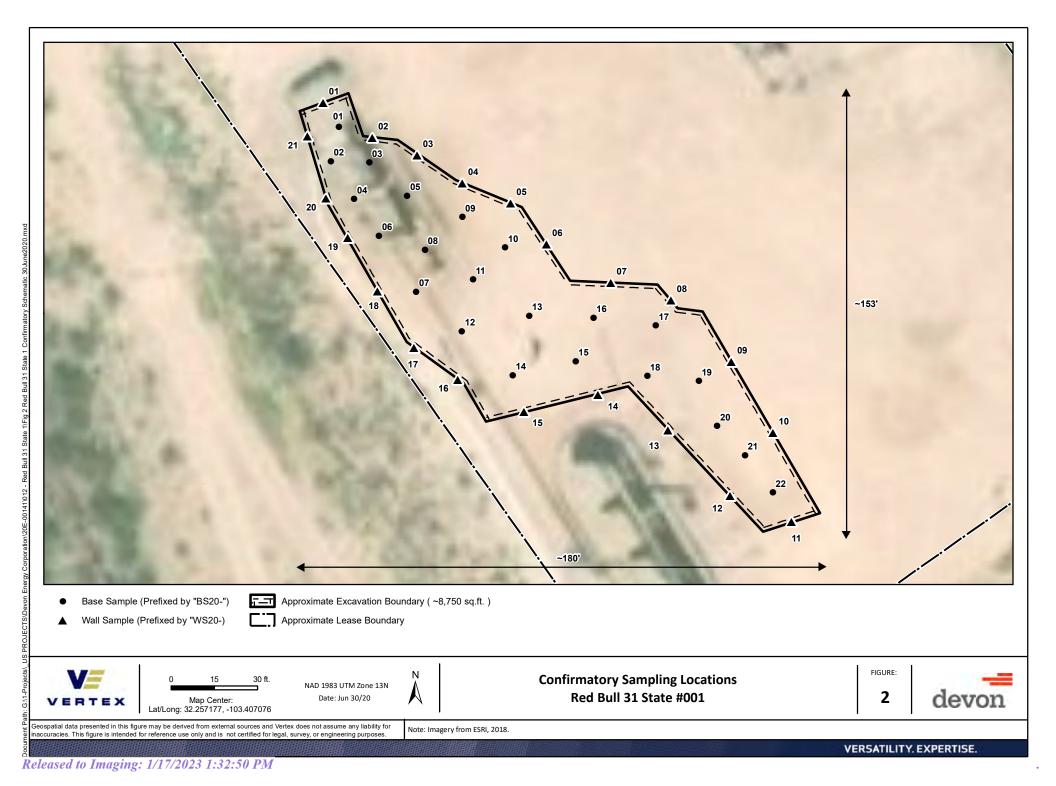
State 1/Fig 2 Red

Red Bull 31

00141\012



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ATTACHMENT 3

Closure C	riteria Worksheet		
	e: Red Bull 31 State 1		
Spill Coor		X: 32.2574463	Y: -103.4067612
	ific Conditions	Value	Unit
1	Depth to Groundwater	329	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	175,244	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	24,763	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	19,879	feet
5	 i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 	4,612	feet
	ii) Within 1000 feet of any fresh water well or spring	4,612	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	544	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
10	Within a 100-year Floodplain	undetermined	year
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	<50' 51-100' >100'



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced O=orphaned, C=the file is closed)	(2=NE 3 it to larg	=SW 4=SE gest) (NA) AD83 UTM in me	eters)	(In feet)	
POD Number	POD Sub- Code basin C	county		Q 16	-	Sec	Tws	Rng	х	Y	Distance	-	Depth Water	Water Column
CP 00614 POD2	CP	LE	4	3	3	29	23S	35E	651102	3571401 🌍	1667	440	320	120
CP 01099 POD2	CP	LE	1	1	1	28	23S	35E	652471	3572934 🌍	3721	750	120	630
CP 01100 POD2	CP	LE		2	1	28	23S	35E	652995	3572726 🌍	3935	750	125	625
<u>C 02387</u>	CUB	LE			1	11	24S	34E	646513	3567613* 🌍	4337	62	40	22
<u>CP 00580</u>	CP	LE	3	4	3	23	23S	34E	646524	3572948* 🌍	4561	220		
CP 00366 POD1	CP	LE	4	1	1	10	24S	35E	654447	3567834* 🌍	4916	1250		
CP 01513 POD1	CP	LE	3	3	1	10	24S	35E	654184	3567350 🌍	4935	186		
										Avera	ge Depth to	Water:	151	feet
											Minimum	Depth:	40	feet
											Maximum	Depth:	320	feet

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 650076.31

Northing (Y): 3570086

Radius: 5000

*UTM location was derived from PLSS - see Help

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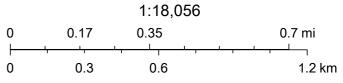
Red Bull 31 State 1



6/24/2020, 4:35:55 PM



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New Mexico Office of the State Engineer Point of Diversion Summary

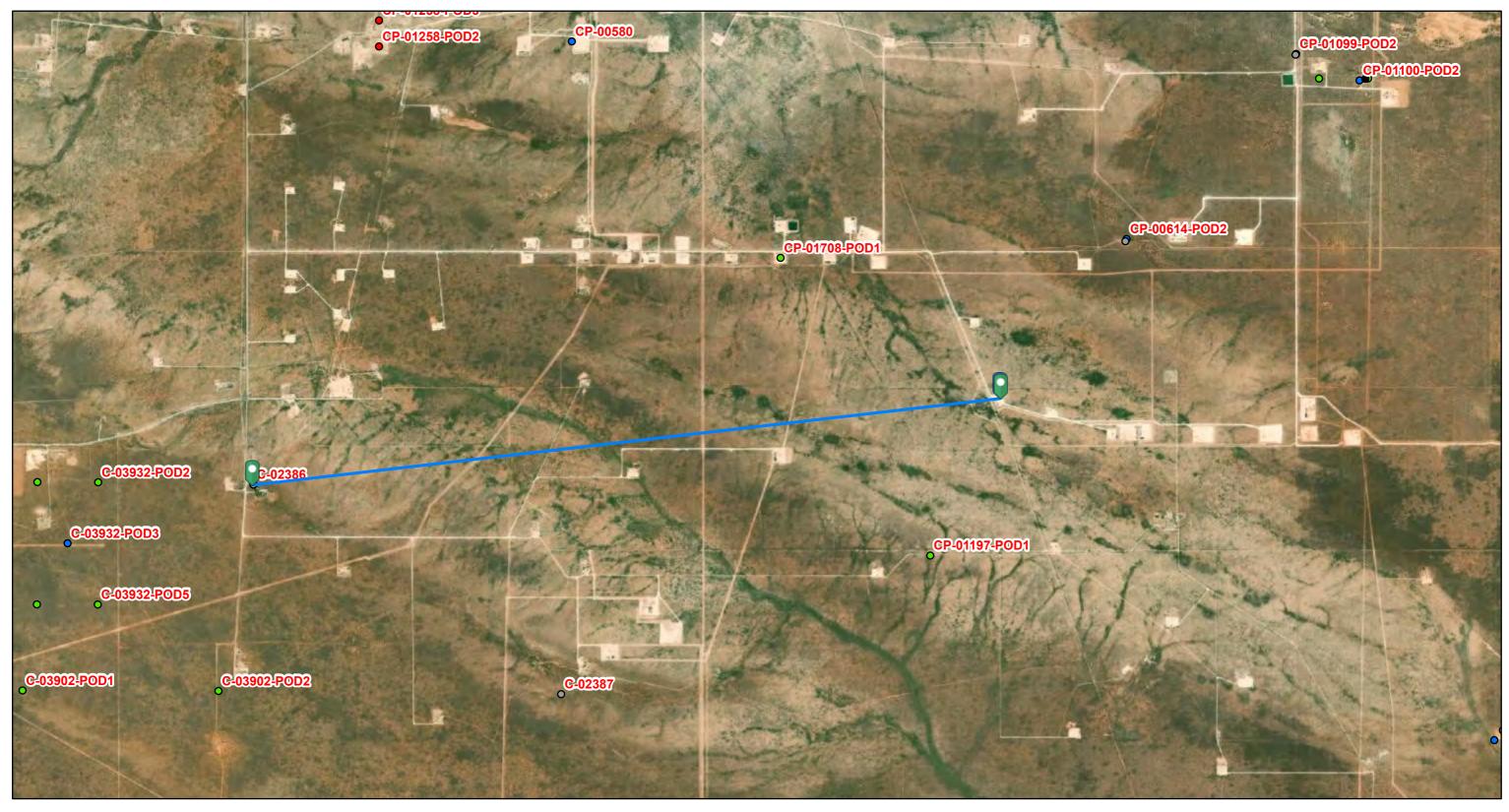
		(quarters (quarters				(NAD83 UT	(NAD83 UTM in meters)		
Well Tag PO	D Number	Q64 Q1	l6 Q4	Sec	Tws	Rng	X	Y	
221BF CP	00614 POD2	4 3	3 3	29	23S	35E	651102	3571401 🌍	
Driller License:	1706	Driller C	ompa	ny:	ELI	TE DRI	LLERS CO	RPORATION	
Driller Name:	WALLACE, BR	YCE J.LEE.NI	ER						
Drill Start Date	: 11/20/2018	Drill Fin	ish Da	te:	1	/23/201	8 Plu	g Date:	
Log File Date:	03/01/2019	2019 PCW Rcv Da					Sou	irce:	Shallow
Pump Type:		Pipe Disc	harge	Size	:	Est	Estimated Yield:		
Casing Size:	7.60	Depth W	ell:		440 feet			oth Water:	320 feet
Wa	ter Bearing Stratil	fications:	То	рB	ottom	Descri	ption		
			25	50	360	Sandst	one/Gravel/	Conglomerate	
			36	50	390	Sandst	one/Gravel/	Conglomerate	
			39	0	420	Sandst	one/Gravel/	Conglomerate	
X	Casing Per	forations:	ations: Top			Bottom			
			30	00	440				

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6/24/20 4:34 PM

POINT OF DIVERSION SUMMARY

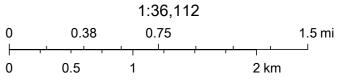
Red Bull 31 State 1-0475



6/24/2020, 4:43:01 PM

	OSE District Boundary	• Incomplete	_	Canal	_	Connector	_	Drain	_	Pipe
GIS \	VATERS PODs	Conveyances		Channel	_	Culvert	_	Feeder	_	Wasteway
•	Active	- Acequia	_	Closed Drain	_	Ditch		Interior Drain	_	Other
•	Pending	- Acequia Tunnel		Community Ditch	_	Diversion Weir	_	Lateral	_	Unknown
•	Plugged			Community Ditch		Diversion weil		Laterai		UTIKHUWH

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Well Tag	POD Number C 02386	(quarters are 1=NW 2 (quarters are smalles Q64 Q16 Q4 Se 4 1 2 04	t to largest) (NAD8 c Tws Rng	33 UTM in meters) X Y 62 3569290*			
x Driller Lic Driller Nai		Driller Company:					
Drill Start	Date:	Drill Finish Date:	01/31/1960	Plug Date:			
Log File D	ate:	PCW Rcv Date:		Source:	Shallow		
Pump Type	e:	Pipe Discharge Siz	ze:	Estimated Yield:	30 GPM		
Casing Size	e: 5.00	Depth Well:	575 feet	Depth Water:	475 feet		
х	Meter Number:	17869	Meter Make:	NEPTUNE			
	Meter Serial Number:	70241623	Meter Multiplier:	100.0000			
	Number of Dials:	6	Meter Type:	Diversion			
	Unit of Measure:	Gallons	Return Flow Percent:				
	Usage Multiplier:		Reading Frequency:	Quarterly			
Meter 1	x Readings (in Acre-Feet)						
Read	l Date Year Mtr R	eading Flag Rdr	Comment	Mtr	Amount Onlin		
12/01	1/2018 2018 2	206390 A RPT			0		

*UTM location was derived from PLSS - see Help

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6/24/20 4:44 PM

POINT OF DIVERSION SUMMARY

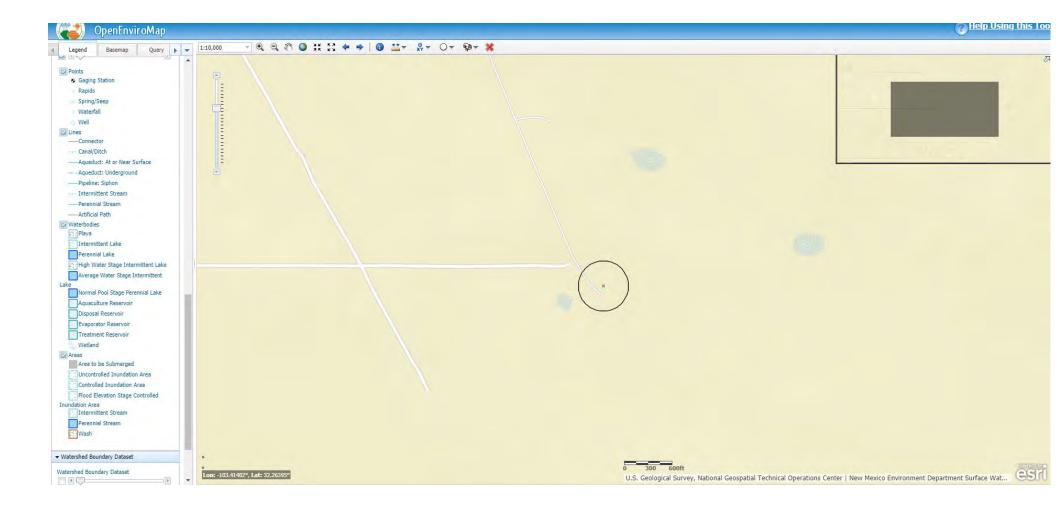
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New Mexico Office of the State Engineer **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)													
	_		`	•	rs are s			• /	(NAD8		M in meters)		
Well Tag	PC	OD Number	Q	64 Q	16 Q4	Sec	Tws	Rng		Х	Y	_	
221BF	CF	P 00614 POD2	4	4 :	33	29	23S	35E	6511	02	3571401	9	
Driller Licen	se:	1706	Driller	Con	npany	/: EL	ITE I	DRILLEF	RS CO	RPC	RATION		
Driller Name	:	WALLACE, BRY	CE J.LEI	E.NE	R								
Drill Start Da	Drill F	inish	n Date	:	11/	23/2018	F	lug	Date:				
Log File Date	e:	03/01/2019	PCW F	PCW Rcv Date:						our	ce:	Shallow	
Pump Type:			Pipe D	isch	arge	Size:			E	Estimated Yield: 35 GPM			
Casing Size:		7.60	Depth	Wel	l:		44() feet	C)ept	h Water:	320 feet	
v	Vate	r Bearing Stratifi	cations:		Тор	Bott	om	Descrip	otion				
					250	:	360	Sandsto	one/Gra	avel/	Conglomer	ate	
					360	;	390	Sandsto	one/Gra	avel/	Conglomer	rate	
					390		420	Sandsto	one/Gravel/Conglomerate				
		Casing Perf	orations	:	Тор	Bott	om						
					300		440						

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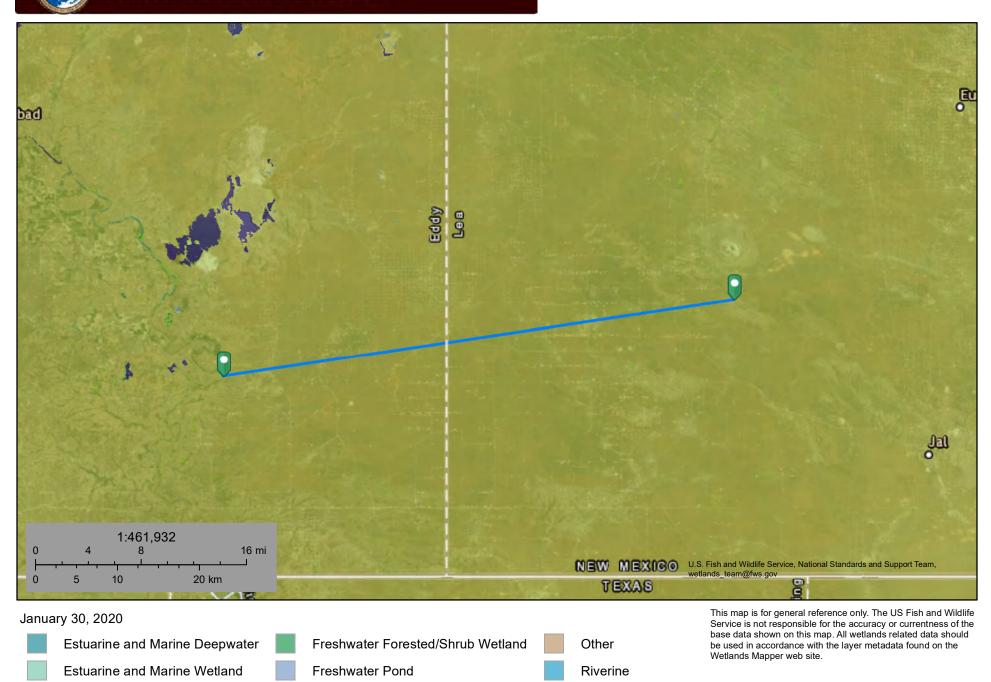
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U.S. Fish and Wildlife Service



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Released to Imaging: 1/17/2023 1:32:50 PM

Freshwater Emergent Wetland

Lake

U.S. Fish and Wildlife Service

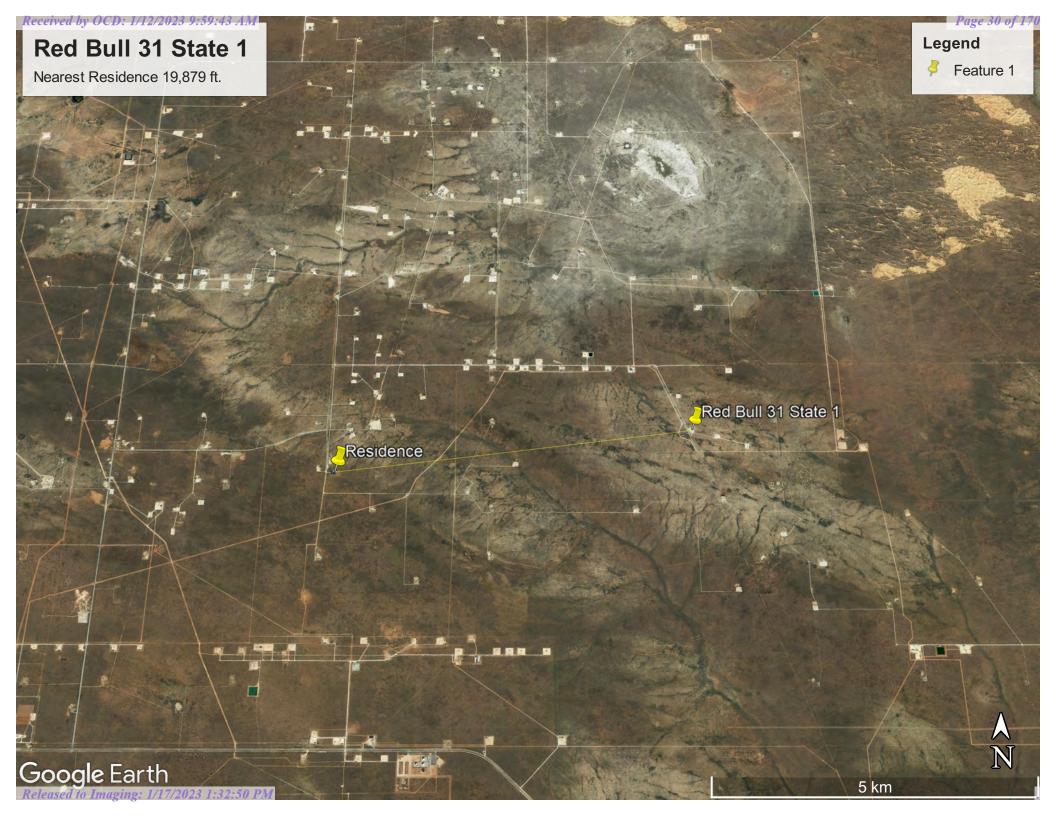
National Wetlands Inventory



Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- **Freshwater Pond**

Lake Other Riverine 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 Active & Inactive Points of Diversion

(R-POD has been replaced

(with Ownership Information)

						(R=POD has been re and no longer serves	replaced es this file, (quarters a	are 1=N	IW 2=NE 3=SW	4=SE)		
	(acre ft	t per annum)				C=the file is closed)			allest to largest)		UTM in meters)	
	Sub				Well		qq					
WR File Nbr	basin Use Div	version Owner	County	POD Number	Tag	Code Grant	Source 6416	4 Sec	: Tws Rng	Х	Y	Distance
<u>CP 01197</u>	CP COM	150 GENERAL COUNSEL OFFICE	LE	CP 01197 POD1			1	3 06	24S 35E	649528	3568790 🌍	1406
<u>CP 00614</u>	CP COM	80 LIMESTONE BASIN PROPERTIES	LE	CP 00614 POD1			Shallow 4 3	3 29	23S 35E	651091	3571382 🌍	1646
			LE	CP 00614 POD2	221BF		Shallow 4 3	3 29	23S 35E	651102	3571401 🌍	1667
<u>CP 01708</u>	CP EXP	0 LIMESTONE LIVESTOCK LLC	LE	CP 01708 POD1	NA		2	1 36	23S 34E	648262	3571205 🌍	2130
<u>CP 01709</u>	CP COM	200 LIMESTONE BASIN PROPERTIES	LE	CP 01708 POD1	NA		2	1 36	23S 34E	648262	3571205 🌍	2130
CP 00433	CP AGR	0 LBM CATTLE COMPANY, INC.	LE	CP 00433 POD2			1	1 28	23S 35E	652662	3572736* 🌍	3702
<u>CP 01099</u>	CP COM	80 LIMESTONE BASIN PROPERTIES	LE	CP 01099 POD1			1 1	1 28	23S 35E	652466	3572927 🌍	3713
			LE	CP 01099 POD2	221C0		Shallow 1 1	1 28	23S 35E	652471	3572934 🌍	3721
<u>CP 01100</u>	CP COM	80 LIMESTONE BASIN PROPERTIES	LE	CP 01100 POD2	221C1		Artesian 2	1 28	23S 35E	652995	3572726 🌍	3935
			LE	CP 01100 POD1			2	1 28	23S 35E	653042	3572739 🌍	3979
<u>CP 00433</u>	CP AGR	0 LBM CATTLE COMPANY, INC.	LE	CP 00433 POD1			2	1 28	23S 35E	653065	3572743* 🌍	3998
<u>C 02387</u>	CUB STK	3 QUAIL RANCH LLC GENERAL COUNSEL OFFICE	LE	<u>C 02387</u>				1 11	24S 34E	646513	3567613* 🌍	4337
<u>CP 00580</u>	CP PRO	0 NATOMAS NORTH AMERICA INC	C LE	<u>CP 00580</u>			Shallow 3 4	3 23	23S 34E	646524	3572948* 🌍	4561
CP 00366	CP COM	2.5 JOHN E. POST	LE	CP 00366 POD1			4 1	1 10	24S 35E	654447	3567834* 🌍	4916
CP 01628	CP PLS	3.1 JOHN E. POST	LE	CP 00366 POD1			4 1	1 10	24S 35E	654447	3567834* 🌍	4916
<u>CP 01513</u>	CP STK	3 JAL PUBLIC LIBRARY FUND	LE	CP 01513 POD1			Shallow 3 3	1 10	24S 35E	654184	3567350 🌍	4935
CP 00365	CP PLS	3 JOHN E. POST	LE	CP 00365 POD1			33	1 10	24S 35E	654253	3567431* 🌍	4949

*UTM location was derived from PLSS - see Help

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Received by OCD: 1/12/2023 9:59:43 AM

Record Count: 17

UTMNAD83 Radius Search (in meters):

Easting (X): 650076.31

Northing (Y): 3570086

Radius: 5000

Sorted by: Distance

U.S. Fish and Wildlife Service

National Wetlands Inventory

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Red Bull 31 Wetland 544 ft.



Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

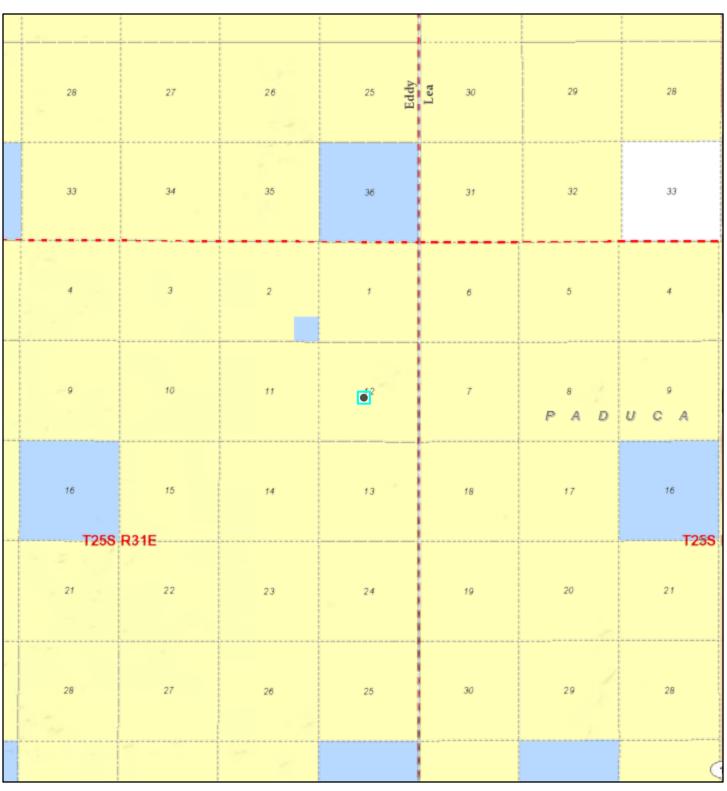
Released to Imaging: 1/17/2023 1:32:50 PM

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

Lake Other Riverine 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.

National Wetlands Inventory (NWI)

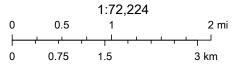
Active Mines in New Mexico





Registered Mines

* Aggregate, Stone etc.



U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

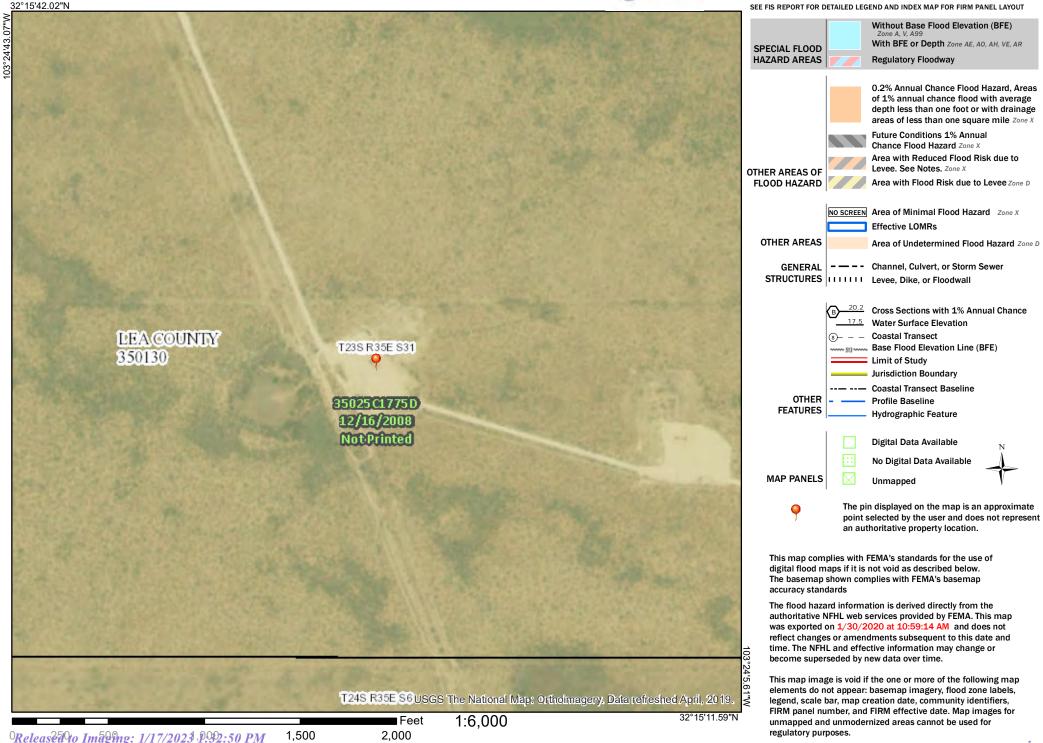
Received by OCD: 1/12/2023 9:59:43,AM National Flood Hazard Layer FIRMette



Legend

egena

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USDA United States Department of Agriculture

> 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 Lea County, 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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Soil Map	
Legend	
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Map Unit Descriptions	11
Lea County, New Mexico	
KO—Kimbrough gravelly loam, dry, 0 to 3 percent slopes	13
References	15

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 classes 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

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

.

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 L	EGEND		MAP INFORMATION
Area of Ir	nterest (AOI)	Spoil Are	ea	The soil surveys that comprise your AOI were mapped at
	Area of Interest (AOI)	👌 Stony Sp	pot	1:20,000.
Soils	Call Man Linit Dahmana	Kery Sto	ony Spot	Warning: Soil Map may not be valid at this scale.
	Soil Map Unit Polygons	🕎 🛛 Wet Spo	ot	······································
~	Soil Map Unit Lines	∆ Other		Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil
	Soil Map Unit Points	Special L	Line Features	line placement. The maps do not show the small areas of
•	Blowout	Water Features	atures	contrasting soils that could have been shown at a more detailed scale.
ຼ	Borrow Pit		and Canals	50010.
		Transportation		Please rely on the bar scale on each map sheet for map
×	Clay Spot	+++ Rails		measurements.
\diamond	Closed Depression	Market Interstate	e Highways	Source of Map: Natural Resources Conservation Service
X	Gravel Pit	🥪 US Rout	les	Web Soil Survey URL:
00	Gravelly Spot	参 🛛 Major Ro	oads	Coordinate System: Web Mercator (EPSG:3857)
ø	Landfill	Local Ro	bads	Maps from the Web Soil Survey are based on the Web Mercato
A.	Lava Flow	Background		projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the
عله	Marsh or swamp	Aerial Ph	hotography	Albers equal-area conic projection, should be used if more
~	Mine or Quarry			accurate calculations of distance or area are required.
0	Miscellaneous Water			This product is generated from the USDA-NRCS certified data a
0	Perennial Water			of the version date(s) listed below.
\vee	Rock Outcrop			Soil Survey Area: Lea County, New Mexico
+	Saline Spot			Survey Area Data: Version 16, Sep 15, 2019
°.	Sandy Spot			Soil map units are labeled (as space allows) for map scales
-	Severely Eroded Spot			1:50,000 or larger.
ô	Sinkhole			Date(s) aerial images were photographed: Dec 31, 2009—Se
ò	Slide or Slip			17, 2017
je Ø	Sodic Spot			The optimum of an athen have seen as which the act the
<u>e</u> g	·			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
КО	Kimbrough gravelly loam, dry, 0 to 3 percent slopes	4.3	100.0%
Totals for Area of Interest		4.3	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.

Lea County, New Mexico

KO—Kimbrough gravelly loam, dry, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw43 Elevation: 2,500 to 4,800 feet Mean annual precipitation: 14 to 16 inches Mean annual air temperature: 57 to 63 degrees F Frost-free period: 180 to 220 days Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough, dry, and similar soils: 80 percent *Minor components:* 20 percent *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Kimbrough, Dry

Setting

Landform: Plains, playa rims Down-slope shape: Linear, convex Across-slope shape: Linear, concave Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam Bw - 3 to 10 inches: loam Bkkm1 - 10 to 16 inches: cemented material Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 4 to 18 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 95 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D Ecological site: Very Shallow 12-17" PZ (R077DY049TX) Hydric soil rating: No

Minor Components

Eunice

Percent of map unit: 10 percent Landform: Plains Down-slope shape: Linear Across-slope shape: Convex Ecological site: Very Shallow 12-17" PZ (R077DY049TX) Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent Landform: Plains, playa rims Down-slope shape: Linear, convex Across-slope shape: Linear Ecological site: Very Shallow 12-17" PZ (R077DY049TX) Hydric soil rating: No

Kenhill

Percent of map unit: 4 percent Landform: Plains Down-slope shape: Linear Across-slope shape: Linear Ecological site: Clay Loam 12-17" PZ (R077DY038TX) Hydric soil rating: No

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Custom Soil Resource Report

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State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised August 8, 2011

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

	Release Notification and Corrective Action												
						OPERA					al Report		Final Report
Name of Co	ompany D	evon Energy	Product	on Company		Contact Ra	andy G	ladden, P	roducti				1
		Rivers Hwy		JM 88210		Telephone			53				
Facility Na	me Red Bi	ull 31 State 1	_			Facility Ty	pe Gas	Well					
Surface Ov	vner State			Mineral	Owner	State				API No	30-025-3	6798	
				LOCA	TIO	N OF REI	LEAS	E					
Unit Letter N	Section 31	Township 23S	Range 35E	Feet from the 1300	North	/South Line FSL		from the 510		West Line WL	County Lea		
Latitude: 32.2574463 Longitude: -103.4067612 NATURE OF RELEASE													
T (D)				NAI	URE	OF REL				X 7 I	D 1		
	Type of Release Produced Water (PW) & Oil							se 7BBLS Oi	1		Recovered 22.7BBLS r	& 2.3BI	BLS
Source of Re Burner gaske					_	Date and 1 1/15/2017			nce		l Hour of D 7 @8:25AM		y
Was Immed			Yes	No 🗌 Not Ro	equired	If YES, To BLM-Shel OCD-Olivi	Whon ly Tuck	n?					
By Whom?						Date and	Hour						
Rebecca Jam	ison, Assist	ant Foreman				BLM-1/16/2017@1048AM OCD-1/16/2017@10:39AM							
Was a Wate	rcourse Rea		Yes 🛛	No		If YES, Ve N/A	olume I	RECE	IVE	tercourse D			
N/A		mpacted, Des		-			E	By Oli	via Y	'u at 12	2:0 <mark>8 pn</mark>	n, Fel	b 07, 201
The gasket fr isolated to pr	om the fire event furthe	er release. Rej	causing the	e fluid to spill out made.	t on loca	tion. The we	llhead a	and the hea	ater trea	ter were bo	oth shut in a	nd the fl	owline was
Approximate total affected	ly 36BBLS area was ap		BLS Oil w 50ft by 150	as released from Oft. Approximate									
regulations a public health should their o or the environ	ll operators or the envir operations h nment. In a	are required to ronment. The ave failed to a	o report an acceptanc idequately CD accep	is true and comp d/or file certain r e of a C-141 repo investigate and r tance of a C-141	elease n ort by th emediat	otifications and e NMOCD m e contaminati	nd perfo arked as on that	orm correc s "Final R pose a thr	tive acti eport" d eat to gr	ions for rel oes not rel ound wate	eases which ieve the ope r, surface w	n may en erator of ater, hur	danger liability nan health
Signature: ${oldsymbol {\cal D}}$	anaina	a Roma					OI	L CON	SERV	ATION	DIVISIO	<u>NC</u>	
Printed Name						Approved by	Enviror	nmental S	pecialist	U	\sim		
Title: Field A	dmin Supp	port				Approval Dat	te: 2/	/7/2017	7	Expiration	Date:		
E-mail Addre	ess: dana.de	elarosa@dvn	.com			Conditions of		val: ached (directi	ive	Attached	1 🗸	
	/2017	Phone ets If Necess	e: 575.746	.5594		30							

1RP-4584

nOY1703843861

pOY1703844234

Released to Imaging: 1/17/2023 1:32:50 PM

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _1/24/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number __1R-_4584_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _3/7/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

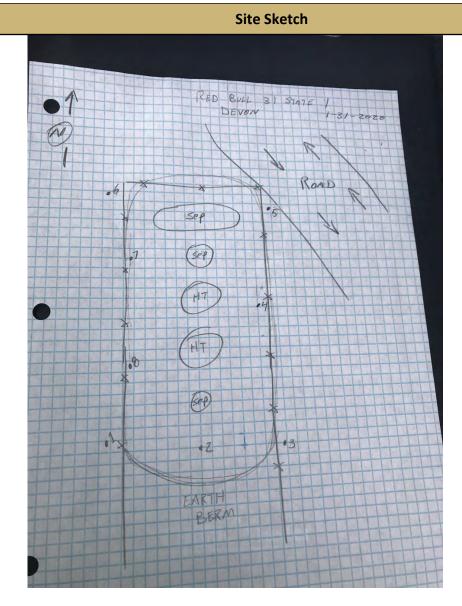
Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

ATTACHMENT 4



Client:	Devon Energy Corporation	Inspection Date:	1/31/2020
Site Location Name:	Red Bull 31 State 1 Battery	Report Run Date:	2/1/2020 11:59 PM
Project Owner:	Amanda Davis	File (Project) #:	20E-00141
Project Manager:	Natalie Gordon	API #:	30-025-36798
Client Contact Name:	Amanda Davis	Reference	Spill 1RP-4584
Client Contact Phone #:	(575) 748-0176	_	
		Summary of	Times
Left Office	1/31/2020 7:15 AM		
Arrived at Site	1/31/2020 8:45 AM		
Departed Site	1/31/2020 4:19 PM		
Returned to Office	1/31/2020 5:45 PM		





Run on 2/1/2020 11:59 PM UTC



Summary of Daily Operations

9:57 Arrive on site.

Complete safety paperwork. Create characterization plan.

Field screen.

Complete DFR.

Return to office.

Next Steps & Recommendations

1 Send characterization samples for lab analysis.

2 Create remediation plan.

3 Remediate to closure criteria

	Sampling										
ackground2)-01										
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?			
0 ft.				18.23 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)		32.257914, - 103.405465	Yes			
1 ft.				39.88 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)		32.257914, - 103.405465	Yes			
2 ft.				81.73 ppm		\checkmark	32.257914, - 103.405465	Yes			

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-01								
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch
0 ft.	0 ppm	1014 ppm		4368.3 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	\checkmark	32.257183, - 103.407222	Yes
1 ft.				553.7 ppm		\checkmark	32.257183, - 103.407222	
1.5 ft.				582.5 ppm		\checkmark	32.257183, - 103.407222	
-02	1		1		I			
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0 ft.				1438.4 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	\checkmark	32.257183, - 103.407151	Yes
0.5 ft.				871.2 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	\checkmark	32.257183, - 103.407151	
	1					1		

810.6 ppm

1.5 ft.

•

32.257183, -

103.407151

V

Daily Site Visit Report

0-03	VISIT Re	μοτι						VERTEX
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
O ft.				1092 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	\checkmark	32.257213, - 103.407116	Yes
0.5 ft.				464.2 ppm		\checkmark	32.257213, - 103.407116	
1 ft.				311.2 ppm		\checkmark	32.257213, - 103.407116	
1.5 ft.				308.3 ppm		\checkmark	32.257213, - 103.407116	
0-04				•	•			
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
					RTEV (EDA SW/ 846 Mothod			

Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0 ft.	0 ppm			6003.6 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	<	32.257332, - 103.407192	Yes
0.5 ft.				1552.4 ppm		\checkmark	32.257332, - 103.407192	
1 ft.				685 ppm		\checkmark	32.257332, - 103.407192	

ly Site	Visit Re	port						VERTE
1.5 ft.				817.8 ppm		\checkmark	32.257332, - 103.407192	
)-05			I					
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked O Site Sketc
0 ft.	0 ppm			3160.3 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	\checkmark	32.257467, - 103.407267	Yes
0.5 ft.				1877.2 ppm		\checkmark	32.257467, - 103.407267	
)-06			•	•				
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked O Site Sketc
0 ft.	0 ppm			1470 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	\checkmark	32.257395, - 103.407418	Yes
0.5 ft.				416.6 ppm		\checkmark	32.257395, - 103.407418	
1 ft.				618.6 ppm		\checkmark	32.257395, - 103.407418	

V

VERTEX

Daily Site Visit Report

,	I	•						VERTEX	
)-07									
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch	
0 ft.	0 ppm	205 ppm		444 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	\checkmark	32.257275, - 103.407337	Yes	
0.5 ft.				162.5 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	\checkmark	32.257275, - 103.407337		
1 ft.				334.3 ppm		\checkmark	32.257275, - 103.407337		
2 ft.				1090.6 ppm		\checkmark	32.257275, - 103.407337		
0-08									
Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch	

Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
0 ft.	0 ppm	816 ppm		3444.6 ppm	BTEX (EPA SW-846 Method 8021B/8260B), Chloride (SW- 4500 Cl), TPH (EPA SW-846 Method 8015M)	\checkmark	32.257205, - 103.407279	Yes
0.5 ft.				810.6 ppm		\checkmark	32.257205, - 103.407279	
1 ft.				754.3 ppm		\checkmark	32.257205, - 103.407279	

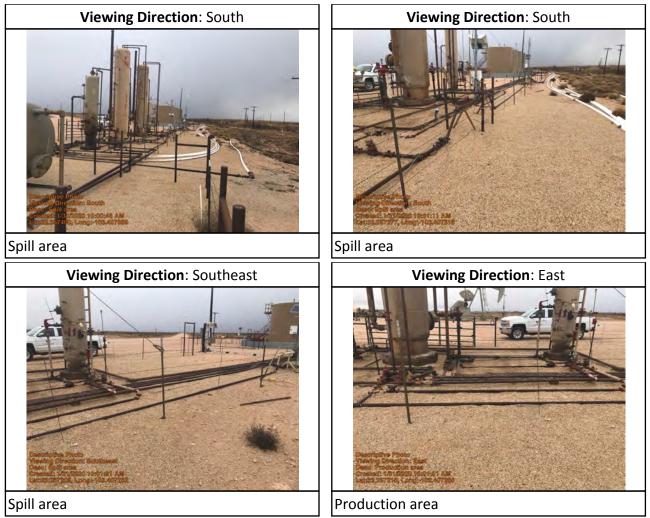
Dai	ily Site '	Visit Re	port				VERTEX
	2 ft.			804.8 ppm		32.257205, - 103.407279	



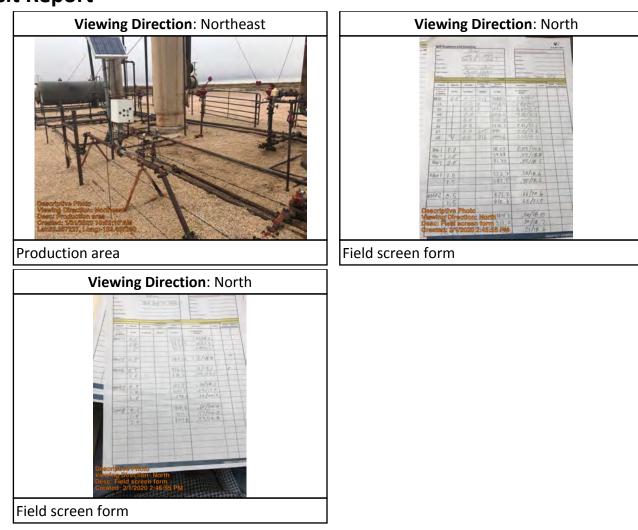
Site Photos Viewing Direction: North Viewing Direction: North Spill area Spill area Viewing Direction: North Viewing Direction: South Spill area on east side Spill area on east side

Run on 2/1/2020 11:59 PM UTC



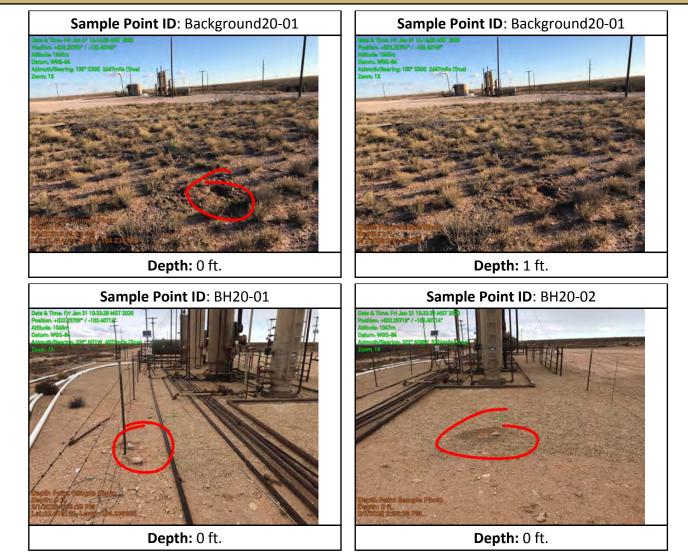




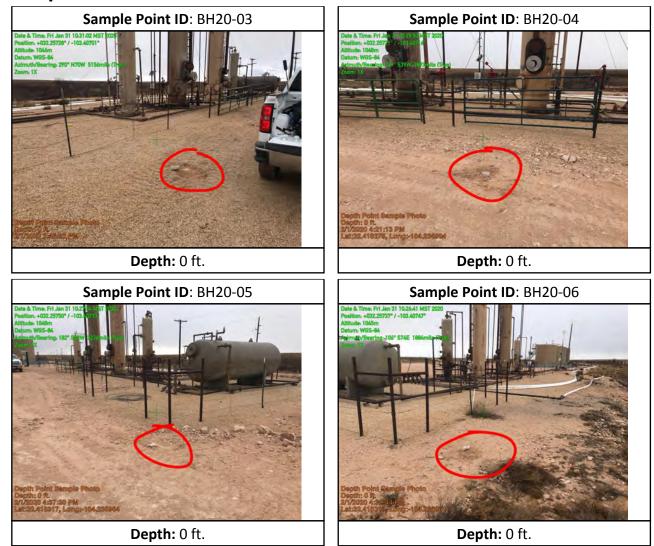




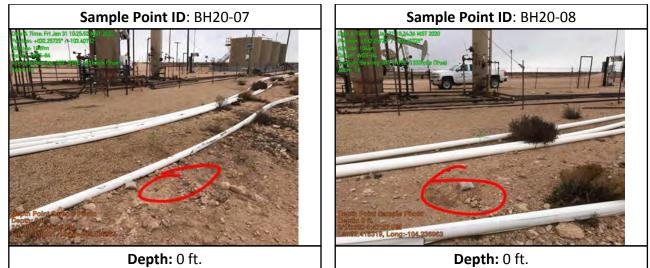
Depth Sample Photos













Daily Site Visit Signature

Inspector: Austin Harris

Signature:

Гор		E -						Location					-15-202		Logged by	Jason C	ab me	·	Northing		
ct Name ct Location Top or ft)	D.11	C - 00	141				Borehole	No. BHZ	D-C	19			-5-202		Checked by				Easting		-
ct Location	Rec	Bull	31	Stat	2]				Gir			Drilling Company	Ventes	L		levation (m or ft)			UTM Zone		
								pth (m or ft) 5					Hand A		Depth to Wa				Page	of	
	Bottom (m or ft)	% Majo	r (>50%)		Ainor 40%)	% Trac	e (<10%)	Gradation		n Size	Moisture	Plasticity	Color		1-		Notes		1.000	0	
		Fine	Coarse	Fine	Coarse	Fine	Coarse	(Major and Coarse only)	Major	Minor	~~~										
	0.(Clay Silt	Sand	Clay Silt	Gravel	Clay Silt	Sand	Poorly Graded	Fine Medium	Fine Medium Coarse	Damp Moist Wet Saturated	Non Plastic Slightly Plastic Plastic Very Plastic) Iroht brown								
op	Bottom	Clay Silt	Sand	Clay Silt	Sand	Clay Silt	Sand Gravel	Poorly Graded Well Graded	Fine	Fine Medium	Dry Damp Moist	Non Plastic Slightly Plastic Plastic									
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			Sand Gravel	Clay Silt	Sand Gravel	Clay Silt	Sand Gravel	Poorly Graded Well Graded	Medium	Medium	Damp Moist Wet	Slightly Plastic Plastic Very Plastic									
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		Silt	Gravel	Silt	Gravel	Silt	Gravel	Well Graded	Medium		Moist Wet	Plastic Very Plastic									
p	Bottom	Clay	Sand	Clay	Sand	Clay	Sand	Poorly Graded	Coarse Fine	Coarse Fine	Saturated Dry Damp	Non Plastic Slightly Plastic									
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	_											Field Sc	reening								
Depth (m c																					
WOC (ppn (μS/m or μ																					

	Demon				8	Borehole Location	ocation				Start Date 2	5.	2020	5	Logged by	Jason	S	Cripter	E	Northing	Ø
	E-0014	11			07	Borehole No.	· RHZO	0-10	0			-15	2020	0						Easting	o
red	Bulls	Britishe	Stre	-	8	orehole D	Borehole Diameter (in)	5			Drilling Company	1.0	Vertex	9	Top of Well Elevation (m or ft)	levation (m or ft)			UTM Zone	me
Project Location					-	otal Depti	Total Depth (m or ft)	1	7		Drilling Method	7	& Anger	D	Depth to Water (m or ft)	ter (m or f	C			Page	
Top Bottom (morft) (morft)	% Major (>50%)	50%)	% Minor (10-40%)		% Trace (<10%)	40%)	Gradation	Grai	Grain Size	Moisture	Plasticity	Color						Notes			
-	Fine C	Coarse	Fine 0	Coarse	Fine	Coarse	(Major and Coarse only)	Major	Minor												
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0.1),					~	Medium	Medium	Moist	Plastic	parre	>								
	silt (G	Gravel	Silt G	Gravel	Silt	Gravel	Well Graded]	Wet Saturated	Very Plastic										
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	Silt G	Gravel	Silt G	Gravel	Silt o	Gravel	Well Graded	1	(Wet	Very Plastic										
								Coarse	Coarse	Saturated											
Bottom	Clay S	Sand	Clay S	Sand	Clav	Sand F	Poorly Graded	Fine	Fine	Dry	Non Plastic										
		_				_		Ξ.		Damp	Slightly Plastic		-								
								Medium	Medium	Moist	Plastic										
	Silt G	Gravel	Silt G	Gravel	Silt G	Gravel	Well Graded			Wet	Very Plastic										
		-		-				Coarse	Coarse	Saturated											
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						_				Damp	Slightly Plastic										
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		Notes	îty Color		e Moisture	Grain Size	Gradation	% Trace (<10%)	% Trac	% Minor (10-40%)		% Major (>50%)	Bottom (m or ft)	Top (m or ft)
q	Page	Depth to Water (m or ft)	ethod Hand Anow	Drilling Method		Port +	_	Total Depth (m or ft)					2	Project Location
one	UTM Zone	Top of Well Elevation (m or ft)	mpa	Drilling Company		15		Borehole Diameter (in)		State	-	3-11	Project Name Red	ject Name
5	Easting		2-15	End Date		- 11	· RHZO	Borehole No.			1	E-00141		Project Number 20
Bu	Northing	Logged by Jason Castru	2-15-2020	Start Date			ocation	Borehole Location				Devan		VERTEX

Received by OCD: 1/12/2023 9:59:43 AM



Spill Resp	onse and	d Sampling)' 2				v	EATES
Client:		Devon			Initial Spill Information	- Record on First	: Visit	******
Date:		2-15-20	20	An a design of the second dynamics of the two provided of the second second second second second second second	Spill Date:	*****	*****	989444 68-894499 89948 (WILLOW BOOM
Site Name:		Red Bul	1 31 Stat	K 1	Spill Volume:	Bart (/Tay to Attack deally gene Lyndger	Berner and a state of the state	a a a a a a a a a a a a a a a a a a a
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Project Manager:		Natalie	L'abtree Gordon	ann - con anna ann ann ann ann ann ann ann ann	Recovered Spill Volume	Bet af Provinsi College College College College	ан санаралык адаалын таланын таланын Сон	no or president and a second secon
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Sample ID	Depth (ft)	VOC (PID)	PetroFlag TPH	Quantab	Data Collect Lab Analysis	ion (Check for Y	es) Trimble	Marked on
SS/TP/BH - Year Number Ex. BH18-01	Ex. '2ft	Ex. 400 ppm	(ppm) 200 ppm	(High/Low) + or - Ex. High +	Ex. Hydrocarbon Chloride	Picture	Coordinates	Site Sketch
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	-				a na	neede fu daa da ya ya ya ya ahaan u da ah		an a second for the new Arthread of the second



Client:	Devon Energy Corporation	Inspection Date:	3/16/2020	
Site Location Name:	Red Bull 31 State 1 Battery	Report Run Date:	3/17/2020 9:04 PM	
Project Owner:	Amanda Davis	- File (Project) #:	20E-00141	
Project Manager:	Natalie Gordon	API #:	30-025-36798	
Client Contact Name:	Amanda Davis	Reference	Spill 1RP-4584	
Client Contact Phone #:	(575) 748-0176	-		
		Summary of	Times	
Left Office	3/16/2020 10:00 AM			
Arrived at Site	3/16/2020 11:30 AM			
Departed Site	3/16/2020 4:31 PM			
Returned to Office	3/16/2020 6:09 PM			

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Site Sketch MON 4 Une fence no 3 berm ㅋ Pum 3

Run on 3/17/2020 9:04 PM UTC



Summary of Daily Operations

11:43 Remediation. Hand digging around heater treater equipment with Wild West. Sampling.

Next Steps & Recommendations

1 Wait for lab results.

2 No backfill needed.

					San	npling			
ES-E	ase20-01								
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	5 ft.	0.3 ppm	418 ppm			Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	,	Νο
ES-E	ase20-02								
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
							\checkmark	3	No
	5 ft.	0.3 ppm	418 ppm			Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846	\checkmark	,	No

aily	y Site '	Visit Re	port						VERTEX
	5 ft.	0.3 ppm	1128 ppm			Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	,	No
Bas	se20-03								
C	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	25 ft.	1 ppm	1500 ppm			Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	,	No
Bas	se20-04								
C	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	1 ft.	0 ppm	83 ppm			Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	,	No
Bas	se20-05								
۵	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
						Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method	\checkmark		

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ES-E	Base20-06								VERIEX
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch?
	O ft.	0.1 ppm	207 ppm			Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	~	,	No
S-E	Base20-07								
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch
	O ft.	0 ppm	522 ppm			Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	<	,	No
S-E	Base20-08			•	•	• · · ·			
	Depth ft	VOC PID	Petro Flag TPH ppm	Quantab Range ppm	Quantab Reading ppm	Lab Analysis	Picture	Trimble Location	Marked On Site Sketch
	0 ft.	0.7 ppm				Benzene (EPA SW-846 Method 8021B/8260B), BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M)	\checkmark	,	No



Site Photos



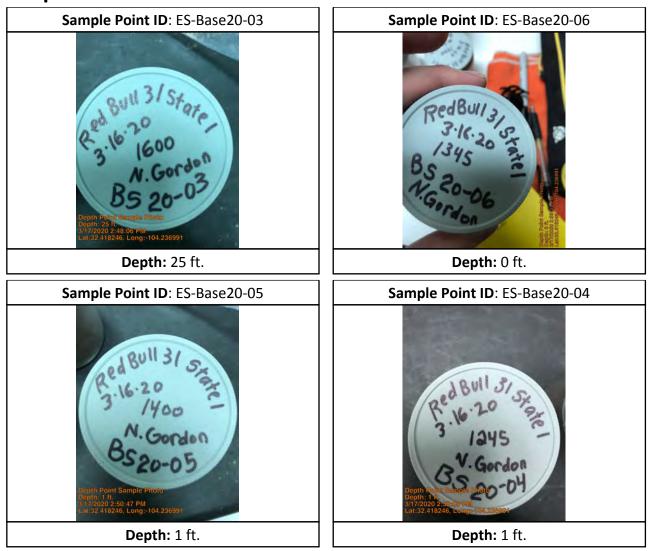


Excavated area within separator and heater treater containment.



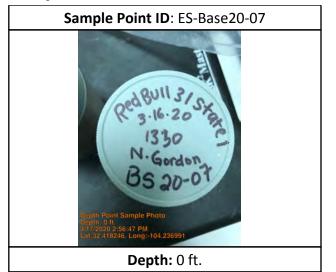
Depth Sample Photos Sample Point ID: ES-Base20-02 Sample Point ID: ES-Base20-02 Depth: Depth: 5 ft. Sample Point ID: ES-Base20-02 Sample Point ID: ES-Base20-01 Depth: 5 ft. Depth: 5 ft.





V

Daily Site Visit Report





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Daily Site Visit Signature

Inspector: Natalie Gordon

Signature:

Run on 3/17/2020 9:04 PM UTC

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Client:	Devon Energy Corporation	Inspection Date:	6/29/2020
Site Location Name:	Red Bull 31 State 1 Battery	Report Run Date:	6/29/2020 8:46 PM
Client Contact Name:	Amanda Davis		30-025-36798
Client Contact Phone #:	(575) 748-0176		
Unique Project ID	-Red Bull 31 State 1 Battery	Project Owner:	Wes Mathews
Project Reference #	20E-00239-012	Project Manager:	Natalie Gordon
		Summary of ⁻	Times
Arrived at Site	6/29/2020 8:32 AM		
Departed Site	6/29/2020 1:02 PM		

Field Notes

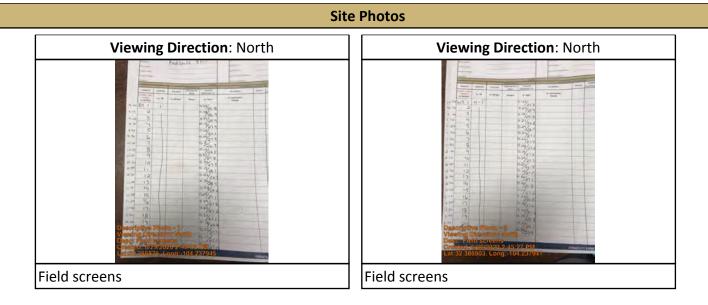
12:37 No outside stains within excavation area. Soil has no odor

Next Steps & Recommendations

1 Send samples to lab for analysis

2 Start closure report





Daily Site Visit Signature

Powered by www.krinkleldar.com

Inspector: Monica Peppin

Signature: Signature

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Run on 6/29/2020 8:46 PM UTC

V VERTEX

ATTACHMENT 5

Client Name: Devon Energy Production Company Site Name: Red Bull 31 State #001 NM OCD Incident Tracking Number: NPAC0717753293 Project #: 20E-00141-012 Lab Report: 2003807

		Table 2. Charact	erization Sam	pling Laborate	ory Data - Dep	th to Groundv	vater < 50ft			
	Sample Description				Petro	oleum Hydrocai	bons			Incomente
			Vol	atile			Extractable			Inorganic
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS 20-01	1	March 16, 2020	<0.025	<0.225	<5.0	610	420	610	1,030	460
BS 20-02	1	March 16, 2020	<0.024	<0.216	<4.8	220	530	220	750	99
BS 20-03	1	March 16, 2020	<0.025	<0.222	<4.9	<9.6	<48	<14.5	<62.5	330
BS 20-04	1	March 16, 2020	<0.023	<0.211	<4.7	<9.6	<48	<14.3	<62.3	81
BS 20-05	0.5	March 16, 2020	<0.024	<0.216	<4.8	66	63	66	129	460
BS 20-06	0.5	March 16, 2020	<0.023	<0.213	<4.6	<9.7	<48	<14.3	<62.3	280
BS 20-07	0.5	March 16, 2020	<0.023	<0.211	<4.7	460	1,100	460	1,560	140
BS 20-08	0.5	March 16, 2020	<0.024	<0.220	4.9	44	110	44	154	1,800

"-" - Not applicable/assessed

Bold and shaded indicates exceedance outside of applied action level

Client Name: Devon Energy Production Company Site Name: Red Bull 31 State #001 NM OCD Incident Tracking Number: NPAC0717753293 Project #: 20E-00141-012 Lab Report: 2007006

		Table 3. Confirm	atory Samplir	ng Laboratory	Results - Dept	h to Groundw:	/ater < 50 ft			
	Sample Description				Petro	oleum Hydroca				Inorganic
			Vol	atile			Extractable			morganic
Sample ID	Depth (ft)	Sample Date	Benzene (mg/kg)	(mg/gg)) 8 Gasoline Range 6 Drganics (GRO)) a Diesel Range Organics (해 (DRO)) Motor Oil Range (정치 Organics (MRO)	(OXO + DKO) (mg/kg)) mail Total Petroleum (a Hydrocarbons (TPH)	(mg/kg)
BS20-01	1	June 29, 2020	<0.025	<0.221	<4.9	<9.8	<49	<14.7	<63.7	330
BS20-02	1	June 29, 2020	<0.025	<0.225	<5.0	<9.5	<47	<14.5	<61.5	<60
BS20-03	1	June 29, 2020	<0.024	<0.220	<4.9	11	<48	11	11	330
BS20-04	1	June 29, 2020	< 0.024	<0.220	<4.9	<9.7	<49	<14.6	<63.6	130
BS20-05	1	June 29, 2020	<0.025	<0.221	<4.9	<9.9	<49	<14.8	<63.8	<60
BS20-06	1	June 29, 2020	<0.025	<0.225	<5.0	<9.7	<48	<14.7	<62.7	130
BS20-07	1	June 29, 2020	< 0.024	<0.219	<4.9	<9.4	<47	<14.3	<61.3	88
BS20-08	1	June 29, 2020	<0.025	<0.221	<4.9	<9.5	<47	<14.4	<61.4	<60
BS20-09	1	June 29, 2020	<0.024	<0.220	<4.9	16	55	16	71	180
BS20-10	1	June 29, 2020	<0.025	<0.224	<5.0	<9.2	<46	<14.2	<60.2	120
BS20-11	1	June 29, 2020	< 0.025	<0.222	<4.9	<9.6	<48	<14.5	<62.5	96
BS20-12	1	June 29, 2020	<0.024	<0.219	<4.9	<10.0	<50	<14.9	<64.9	140
BS20-13	1	June 29, 2020	<0.024	<0.220	<4.9	<9.2	<46	<14.1	<60.1	250
BS20-14	1	June 29, 2020	<0.024	<0.219	<4.9	<9.8	<49	<14.7	<63.7	<60
BS20-15	1	June 29, 2020	<0.025	<0.225	<5.0	<9.6	<48	<14.6	<62.6	<60
BS20-16	1	June 29, 2020	<0.025	<0.225	<5.0	<9.5	<47	<14.5	<61.5	<60
BS20-17	1	June 29, 2020	<0.025	<0.224	<5.0	<9.1	<46	<14.1	<60.1	150
BS20-18	1	June 29, 2020	<0.025	<0.222	<4.9	<9.2	<46	<14.1	<60.1	220
BS20-19	1	June 29, 2020	<0.025	<0.225	<5.0	<9.5	<47	<14.5	<61.5	140
BS20-20	1	June 29, 2020	<0.025	<0.224	<5.0	<9.1	<46	<14.1	<60.1	170
BS20-21	1	June 29, 2020	<0.025	<0.224	<5.0	<9.0	<45	<14.0	<59.0	100
BS20-22	1	June 29, 2020	<0.024	<0.216	<4.8	<9.6	<48	<14.4	<62.4	140
WS20-01	0-1	June 29, 2020	<0.024	<0.215	<4.8	<9.9	<50	<14.7	<64.7	190
WS20-02	0-1	June 29, 2020	<0.023	<0.208	<4.6	<9.9	<49	<14.5	<63.5	160
WS20-03	0-1	June 29, 2020	<0.025	<0.221	<4.9	<9.3	<46	<14.2	<60.2	96
WS20-04	0-1	June 29, 2020	<0.024	<0.215	<4.8	<9.5	<48	<14.3	<62.3	270
WS20-05	0-1	June 29, 2020	<0.025	<0.221	<4.9	<10.0	<50	<14.9	<64.9	280
WS20-06	0-1	June 29, 2020	<0.023	<0.208	<4.6	<9.6	<48	<14.2	<62.2	150
WS20-07	0-1	June 29, 2020	<0.024	<0.212	<4.7	<9.9	<49	<14.6	<63.6	210
WS20-08	0-1	June 29, 2020	<0.023	<0.211	<4.7	<9.3	<47	<14.0	<61.0	250
WS20-09	0-1	June 29, 2020	<0.023	<0.210	<4.7	<9.6	<48	<14.3	<62.3	160
WS20-10	0-1	June 29, 2020	<0.024	<0.217	<4.8	<9.3	<47	<14.1	<61.1	270
WS20-11	0-1	June 29, 2020	<0.024	<0.216	<4.8	<9.6	<48	<14.4	<62.4	180
WS20-12	0-1	June 29, 2020	<0.025	<0.221	<4.9	<9.4	<47	<14.3	<61.3	80
WS20-13	0-1	June 29, 2020	<0.024	<0.216	<4.8	<9.2	<46	<14.0	<60.0	360
WS20-14	0-1	June 29, 2020	<0.024	<0.213	<4.7	<10.0	<50	<14.7	<64.7	190
WS20-15	0-1	June 29, 2020	<0.023	<0.208	<4.6	<9.7	<48	<14.3	<62.3	89
WS20-16	0-1	June 29, 2020	<0.024	<0.216	<4.8	<9.7	<49	<14.5	<63.5	210
WS20-17	0-1	June 29, 2020	<0.024	<0.215	<4.8	<9.4	<47	<14.2	<61.2	98
WS20-18	0-1	June 29, 2020	<0.024	<0.220	<4.9	<9.5	<47	<14.4	<61.4	230
WS20-19	0-1	June 29, 2020	<0.023	<0.211	<4.7	<9.7	<48	<14.4	<62.4	140
WS20-20	0-1	June 29, 2020	<0.024	<0.216	<4.8	<9.8	<49	<14.6	<63.6	220
WS20-21	0-1	June 29, 2020	<0.025	<0.221	<4.9	<9.3	<46	<14.2	<60.2	300

"-" - Not applicable/assessed

Bold and shaded indicates exceedance outside of applied action level



ATTACHMENT 6

Natalie Gordon

From:	Dhugal Hanton <vertexresourcegroupusa@gmail.com></vertexresourcegroupusa@gmail.com>
Sent:	Wednesday, June 24, 2020 6:04 PM
То:	Natalie Gordon
Subject:	Fwd: Red Bull 31 State 1: 48-hr Notification of Confirmation Sampling (Devon Energy)

------ Forwarded message ------

From: Dhugal Hanton <<u>vertexresourcegroupusa@gmail.com</u>> Date: Wed, Jun 24, 2020 at 6:02 PM Subject: Red Bull 31 State 1: 48-hr Notification of Confirmation Sampling (Devon Energy) To: Bratcher, Mike, EMNRD <<u>Mike.Bratcher@state.nm.us</u>>, EMNRD-OCD-District1spills <<u>emnrd-ocddistrict1spills@state.nm.us</u>>, <<u>ramona.marcus@state.nm.us</u>>, <<u>rmann@slo.state.nm.us</u>> Cc: <<u>tom.bynum@dvn.com</u>>

All,

Please accept this email as 48-hr notification that Vertex Resource Services Inc. has scheduled confirmation sampling to be conducted at Red Bull 31 State 1 for the following two incidents:

1. nOY1703843861 1RP-4584 DOR: January 15, 2017

2. DOR: 02/21/2019 --- 6 bbl release of oil and produced water into the heater treater earthen containment. No incident number known.

On Monday, June 29, 2020 at approximately 7:00 a.m., Monica Peppin of Vertex will be onsite to conduct confirmatory sampling. She can be reached at 575-361-9880. If you need directions to the site, please do not hesitate to contact her. If you have any questions or concerns regarding this notification, please give me a call at 505-506-0040.

Thank you, Natalie

ATTACHMENT 7



March 25, 2020

Amanda Davis Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (575) 748-0176 FAX: Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

RE: Red Bull 31 State 1

OrderNo.: 2003807

Dear Amanda Davis:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/18/2020 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,

Ander

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

CLIENT: Devon Energy

Analytical Report Lab Order 2003807

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/25/2020
Client Sample ID: BS 20-01

				1		
Project:	Red Bull 31 State 1		Colle	ction Date:	3/16/2	2020 12:15:00 PM
Lab ID:	2003807-001	Matrix: SOIL	Reco	eived Date:	3/18/2	2020 8:25:00 AM
Analyses		Result	RL Qu	al Units	DF	Date Analyzed
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: BRM
Diesel F	Range Organics (DRO)	610	47	mg/Kg	5	3/23/2020 5:26:08 PM
Motor C	il Range Organics (MRO)	420	240	mg/Kg	5	3/23/2020 5:26:08 PM
Surr:	DNOP	93.4	55.1-146	%Rec	5	3/23/2020 5:26:08 PM
EPA ME	THOD 300.0: ANIONS					Analyst: JMT
Chloride	9	460	60	mg/Kg	20	3/24/2020 4:59:53 PM
EPA ME	THOD 8260B: VOLATILES S	HORT LIST				Analyst: RAA
Benzen	е	ND	0.025	mg/Kg	1	3/22/2020 8:46:42 AM
Toluene		ND	0.050	mg/Kg	1	3/22/2020 8:46:42 AM
Ethylbe	nzene	ND	0.050	mg/Kg	1	3/22/2020 8:46:42 AM
Xylenes	, Total	ND	0.10	mg/Kg	1	3/22/2020 8:46:42 AM
Surr:	1,2-Dichloroethane-d4	78.5	70-130	%Rec	1	3/22/2020 8:46:42 AM
Surr:	4-Bromofluorobenzene	92.6	70-130	%Rec	1	3/22/2020 8:46:42 AM
Surr:	Dibromofluoromethane	93.4	70-130	%Rec	1	3/22/2020 8:46:42 AM
Surr:	Toluene-d8	99.7	70-130	%Rec	1	3/22/2020 8:46:42 AM
EPA ME	THOD 8015D MOD: GASOLI	NE RANGE				Analyst: RAA
Gasolin	e Range Organics (GRO)	ND	5.0	mg/Kg	1	3/22/2020 8:46:42 AM
Surr:	BFB	99.7	70-130	%Rec	1	3/22/2020 8:46:42 AM
Surr:	BFB	99.7	70-130	%Rec	1	3/22/2020 8:46:42

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

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 13

CLIENT: Devon Energy

Analytical Report Lab Order 2003807

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/25/2020 Client Sample ID: BS 20-02 Collection Date: 3/16/2020 4:45:00 PM

Project:	Red Bull 31 State 1		Colle	ction Date:	3/16/2	020 4:45:00 PM
Lab ID:	2003807-002	Matrix: SOIL	Rece	eived Date:	3/18/2	2020 8:25:00 AM
Analyses		Result	RL Qu	al Units	DF	Date Analyzed
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: BRM
Diesel R	Range Organics (DRO)	220	9.8	mg/Kg	1	3/20/2020 12:14:22 PM
Motor O	il Range Organics (MRO)	530	49	mg/Kg	1	3/20/2020 12:14:22 PM
Surr:	DNOP	95.3	55.1-146	%Rec	1	3/20/2020 12:14:22 PM
EPA ME	THOD 300.0: ANIONS					Analyst: JMT
Chloride)	99	60	mg/Kg	20	3/24/2020 5:36:55 PM
EPA ME	THOD 8260B: VOLATILES S	HORT LIST				Analyst: RAA
Benzene	e	ND	0.024	mg/Kg	1	3/22/2020 10:12:14 AM
Toluene		ND	0.048	mg/Kg	1	3/22/2020 10:12:14 AM
Ethylber	nzene	ND	0.048	mg/Kg	1	3/22/2020 10:12:14 AM
Xylenes	, Total	ND	0.096	mg/Kg	1	3/22/2020 10:12:14 AM
Surr:	1,2-Dichloroethane-d4	77.3	70-130	%Rec	1	3/22/2020 10:12:14 AM
Surr:	4-Bromofluorobenzene	101	70-130	%Rec	1	3/22/2020 10:12:14 AM
Surr:	Dibromofluoromethane	95.8	70-130	%Rec	1	3/22/2020 10:12:14 AM
Surr:	Toluene-d8	100	70-130	%Rec	1	3/22/2020 10:12:14 AM
EPA ME	THOD 8015D MOD: GASOLI	NE RANGE				Analyst: RAA
Gasoline	e Range Organics (GRO)	ND	4.8	mg/Kg	1	3/22/2020 10:12:14 AM
Surr:	BFB	102	70-130	%Rec	1	3/22/2020 10:12:14 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 range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 13

Analytical Report Lab Order 2003807

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/25/2020

CLIENT: Devon Energy		Client S	Sample ID:	BS 20	-03			
Project: Red Bull 31 State 1		Collec	ction Date:	3/16/2	020 4:00:00 PM			
Lab ID: 2003807-003	Matrix: SOIL	Rece	vived Date:	ed Date: 3/18/2020 8:25:00 AM				
Analyses	Result	RL Qua	al Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: BRM			
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/20/2020 12:38:51 PM			
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/20/2020 12:38:51 PM			
Surr: DNOP	83.0	55.1-146	%Rec	1	3/20/2020 12:38:51 PM			
EPA METHOD 300.0: ANIONS					Analyst: JMT			
Chloride	330	60	mg/Kg	20	3/24/2020 5:49:15 PM			
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: RAA			
Benzene	ND	0.025	mg/Kg	1	3/22/2020 11:37:48 AM			
Toluene	ND	0.049	mg/Kg	1	3/22/2020 11:37:48 AM			
Ethylbenzene	ND	0.049	mg/Kg	1	3/22/2020 11:37:48 AM			
Xylenes, Total	ND	0.099	mg/Kg	1	3/22/2020 11:37:48 AM			
Surr: 1,2-Dichloroethane-d4	82.7	70-130	%Rec	1	3/22/2020 11:37:48 AM			
Surr: 4-Bromofluorobenzene	95.6	70-130	%Rec	1	3/22/2020 11:37:48 AM			
Surr: Dibromofluoromethane	95.8	70-130	%Rec	1	3/22/2020 11:37:48 AM			
Surr: Toluene-d8	99.6	70-130	%Rec	1	3/22/2020 11:37:48 AM			
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst: RAA			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/22/2020 11:37:48 AM			
Surr: BFB	99.7	70-130	%Rec	1	3/22/2020 11:37:48 AM			

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

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

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CLIENT: Devon Energy

Analytical Report Lab Order 2003807

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/25/2020 Client Sample ID: BS 20-04 Collection Date: 2/16/2020 12:45:00 PM

		-		
	Colle	ection Date:	3/16/2	2020 12:45:00 PM
Matrix: SOIL	Rec	eived Date:	3/18/2	020 8:25:00 AM
Result	RL Qu	ial Units	DF	Date Analyzed
SEL RANGE ORGANICS				Analyst: BRM
ND	9.6	mg/Kg	1	3/20/2020 1:03:14 PM
D) ND	48	mg/Kg	1	3/20/2020 1:03:14 PM
91.6	55.1-146	%Rec	1	3/20/2020 1:03:14 PM
S				Analyst: JMT
81	60	mg/Kg	20	3/24/2020 6:01:36 PM
TILES SHORT LIST				Analyst: RAA
ND	0.023	mg/Kg	1	3/22/2020 12:06:22 PM
ND	0.047	mg/Kg	1	3/22/2020 12:06:22 PM
ND	0.047	mg/Kg	1	3/22/2020 12:06:22 PM
ND	0.094	mg/Kg	1	3/22/2020 12:06:22 PM
87.5	70-130	%Rec	1	3/22/2020 12:06:22 PM
99.3	70-130	%Rec	1	3/22/2020 12:06:22 PM
95.8	70-130	%Rec	1	3/22/2020 12:06:22 PM
99.5	70-130	%Rec	1	3/22/2020 12:06:22 PM
GASOLINE RANGE				Analyst: RAA
)) ND	4.7	mg/Kg	1	3/22/2020 12:06:22 PM
103	70-130	%Rec	1	3/22/2020 12:06:22 PM
	Matrix: SOIL Result SEL RANGE ORGANICS S O) ND O) ND O) S ND	Matrix: SOIL Rec Result RL Qu SEL RANGE ORGANICS ND 9.6 O) ND 9.6 O) ND 48 91.6 55.1-146 55.1-146 S 81 60 TILES SHORT LIST ND 0.023 ND 0.047 ND 99.3 70-130 99.3 99.5 70-130 99.5 S 70-130 99.5 S 70-130 99.5 S 70-130 99.5	Matrix: SOIL Received Date: Result RL Qual Units SEL RANGE ORGANICS ND 9.6 mg/Kg O) ND 9.6 mg/Kg O) ND 48 mg/Kg O) 91.6 55.1-146 %Rec S	Matrix: SOIL Receive Uate: 3/18/2 Result RL Qual Units DF SEL RANGE ORGANICS ND 9.6 mg/Kg 1 O) ND 9.6 mg/Kg 1 O) ND 48 mg/Kg 1 91.6 55.1-146 %Rec 1 S 70 mg/Kg 1 S 81 60 mg/Kg 1 ND 0.023 mg/Kg 1 1 ND 0.047 mg/Kg 1 99.3 70-130 %Rec 1 99.5 70-130 %Rec 1

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

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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CLIENT: Devon Energy

Analytical Report Lab Order 2003807

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/25/2020 Client Sample ID: BS 20-05

Project:	Red Bull 31 State 1	Collection Date: 3/16/2020 2:00:00 PM								
Lab ID:	2003807-005	Matrix: SOIL	Rece	eived Date:	3/18/2	020 8:25:00 AM				
Analyses		Result	RL Qu	al Units	DF	Date Analyzed				
EPA ME	THOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: BRM				
Diesel R	ange Organics (DRO)	66	9.1	mg/Kg	1	3/23/2020 5:48:22 PM				
Motor O	il Range Organics (MRO)	63	45	mg/Kg	1	3/23/2020 5:48:22 PM				
Surr:	DNOP	88.8	55.1-146	%Rec	1	3/23/2020 5:48:22 PM				
EPA ME	THOD 300.0: ANIONS					Analyst: JMT				
Chloride		460	60	mg/Kg	20	3/24/2020 6:13:56 PM				
EPA ME	THOD 8260B: VOLATILES S	HORT LIST				Analyst: RAA				
Benzene	9	ND	0.024	mg/Kg	1	3/22/2020 12:34:56 PM				
Toluene		ND	0.048	mg/Kg	1	3/22/2020 12:34:56 PM				
Ethylber	izene	ND	0.048	mg/Kg	1	3/22/2020 12:34:56 PM				
Xylenes	, Total	ND	0.096	mg/Kg	1	3/22/2020 12:34:56 PM				
Surr:	1,2-Dichloroethane-d4	82.4	70-130	%Rec	1	3/22/2020 12:34:56 PM				
Surr:	4-Bromofluorobenzene	96.5	70-130	%Rec	1	3/22/2020 12:34:56 PM				
Surr:	Dibromofluoromethane	95.4	70-130	%Rec	1	3/22/2020 12:34:56 PM				
Surr:	Toluene-d8	101	70-130	%Rec	1	3/22/2020 12:34:56 PM				
EPA ME	THOD 8015D MOD: GASOL	INE RANGE				Analyst: RAA				
Gasoline	e Range Organics (GRO)	ND	4.8	mg/Kg	1	3/22/2020 12:34:56 PM				
Surr:	BFB	102	70-130	%Rec	1	3/22/2020 12:34:56 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

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit S

% Recovery outside of range due to dilution or matrix

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 5 of 13

Analytical Report Lab Order 2003807

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/25/2020

CLIENT: Devon Energy		Client S	ample ID:	BS 20	-06		
Project: Red Bull 31 State 1		Collec	tion Date:	3/16/2	020 1:45:00 PM		
Lab ID: 2003807-006	Matrix: SOIL	Recei	ived Date:	e: 3/18/2020 8:25:00 AM			
Analyses	Result	RL Qua	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: BRM		
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/20/2020 1:51:54 PM		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/20/2020 1:51:54 PM		
Surr: DNOP	88.4	55.1-146	%Rec	1	3/20/2020 1:51:54 PM		
EPA METHOD 300.0: ANIONS					Analyst: JMT		
Chloride	280	60	mg/Kg	20	3/24/2020 6:26:17 PM		
EPA METHOD 8260B: VOLATILES SHO	RT LIST				Analyst: RAA		
Benzene	ND	0.023	mg/Kg	1	3/22/2020 1:03:34 PM		
Toluene	ND	0.046	mg/Kg	1	3/22/2020 1:03:34 PM		
Ethylbenzene	ND	0.046	mg/Kg	1	3/22/2020 1:03:34 PM		
Xylenes, Total	ND	0.093	mg/Kg	1	3/22/2020 1:03:34 PM		
Surr: 1,2-Dichloroethane-d4	89.8	70-130	%Rec	1	3/22/2020 1:03:34 PM		
Surr: 4-Bromofluorobenzene	96.3	70-130	%Rec	1	3/22/2020 1:03:34 PM		
Surr: Dibromofluoromethane	96.0	70-130	%Rec	1	3/22/2020 1:03:34 PM		
Surr: Toluene-d8	97.3	70-130	%Rec	1	3/22/2020 1:03:34 PM		
EPA METHOD 8015D MOD: GASOLINE	RANGE				Analyst: RAA		
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/22/2020 1:03:34 PM		
Surr: BFB	97.0	70-130	%Rec	1	3/22/2020 1:03:34 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2003807

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/25/2020

CLIENT: Devon Energy		Clie	ent Sai	nple ID:	BS 20	-07		
Project: Red Bull 31 State 1		С	ollecti	on Date:	3/16/2	020 1:30:00 PM		
Lab ID: 2003807-007	Matrix: SOIL	F	Receiv	ed Date:	: 3/18/2020 8:25:00 AM			
Analyses	Result	RL	Qual	Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst: BRM		
Diesel Range Organics (DRO)	460	92		mg/Kg	10	3/23/2020 6:10:38 PM		
Motor Oil Range Organics (MRO)	1100	460		mg/Kg	10	3/23/2020 6:10:38 PM		
Surr: DNOP	0	55.1-146	S	%Rec	10	3/23/2020 6:10:38 PM		
EPA METHOD 300.0: ANIONS						Analyst: JMT		
Chloride	140	61		mg/Kg	20	3/24/2020 7:28:00 PM		
EPA METHOD 8260B: VOLATILES SHOP						Analyst: RAA		
Benzene	ND	0.023		mg/Kg	1	3/22/2020 1:32:01 PM		
Toluene	ND	0.047		mg/Kg	1	3/22/2020 1:32:01 PM		
Ethylbenzene	ND	0.047		mg/Kg	1	3/22/2020 1:32:01 PM		
Xylenes, Total	ND	0.094		mg/Kg	1	3/22/2020 1:32:01 PM		
Surr: 1,2-Dichloroethane-d4	86.3	70-130		%Rec	1	3/22/2020 1:32:01 PM		
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	3/22/2020 1:32:01 PM		
Surr: Dibromofluoromethane	97.3	70-130		%Rec	1	3/22/2020 1:32:01 PM		
Surr: Toluene-d8	98.8	70-130		%Rec	1	3/22/2020 1:32:01 PM		
EPA METHOD 8015D MOD: GASOLINE F	RANGE					Analyst: RAA		
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/22/2020 1:32:01 PM		
Surr: BFB	102	70-130		%Rec	1	3/22/2020 1:32:01 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

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix в Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 7 of 13

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2003807

Date Reported: 3/25/2020

CLIENT: Devon Energy		Client S	Sample ID:	BS 20	-08
Project: Red Bull 31 State 1		Colle	ction Date:	3/16/2	020 1:15:00 PM
Lab ID: 2003807-008	Matrix: SOIL	Matrix: SOIL Receive			020 8:25:00 AM
Analyses	Result	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: BRM
Diesel Range Organics (DRO)	44	9.4	mg/Kg	1	3/20/2020 2:40:17 PM
Motor Oil Range Organics (MRO)	110	47	mg/Kg	1	3/20/2020 2:40:17 PM
Surr: DNOP	98.3	55.1-146	%Rec	1	3/20/2020 2:40:17 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	1800	60	mg/Kg	20	3/24/2020 7:40:22 PM
EPA METHOD 8260B: VOLATILES S	HORT LIST				Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	3/22/2020 2:00:29 PM
Toluene	ND	0.049	mg/Kg	1	3/22/2020 2:00:29 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/22/2020 2:00:29 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/22/2020 2:00:29 PM
Surr: 1,2-Dichloroethane-d4	83.4	70-130	%Rec	1	3/22/2020 2:00:29 PM
Surr: 4-Bromofluorobenzene	97.5	70-130	%Rec	1	3/22/2020 2:00:29 PM
Surr: Dibromofluoromethane	97.1	70-130	%Rec	1	3/22/2020 2:00:29 PM
Surr: Toluene-d8	97.1	70-130	%Rec	1	3/22/2020 2:00:29 PM
EPA METHOD 8015D MOD: GASOLI	NE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/22/2020 2:00:29 PM
Surr: BFB	97.7	70-130	%Rec	1	3/22/2020 2:00:29 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

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ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

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- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 8 of 13

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Devon E	nergy								
Project:	Red Bull	31 State 1								
Sample ID:	MB-51292	SampType: m	blk	Tes	tCode: EF	PA Method	300.0: Anion:	S		
Client ID:	PBS	Batch ID: 51	292	F	RunNo: 67	7533				
Prep Date:	3/24/2020	Analysis Date: 3	/24/2020	S	SeqNo: 23	331598	Units: mg/K	g		
Analyte Chloride		Result PQL ND 1.5	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sample ID:	LCS-51292	SampType: Ics TestCode: EPA Method 300.0: Anions								
Client ID:	LCSS	Batch ID: 51	292	F	RunNo: 67	7533				
Prep Date:	3/24/2020	Analysis Date: 3	/24/2020	S	SeqNo: 23	331599	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	94.3	90	110			
Sample ID:	MB-51305	SampType: m	blk	Tes	tCode: EF	PA Method	300.0: Anion	S		
Client ID:	PBS	Batch ID: 51	305	F	RunNo: 67	7533				
Prep Date:	3/24/2020	Analysis Date: 3	/24/2020	S	SeqNo: 23	331634	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1.5								
Sample ID:	LCS-51305	SampType: Ic:	6	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID: 51	305	F	RunNo: 67	7533				
Prep Date:	3/24/2020	Analysis Date: 3	/24/2020	S	SeqNo: 23	331635	Units: mg/K	g		
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1.5	15.00	0	93.9	90	110			

Qualifiers:

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- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
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- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2003807

25-Mar-20

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

IAKI KEPUKI	WO#:	2003807
mental Analysis Laboratory, Inc.		25-Mar-20

Client: Devon En	<i>e.</i>										
Project: Red Bull	31 State 1										
Sample ID: LCS-51100	SampType: I	.CS	Test	Code: EP	A Method	8015M/D: Die	sel Range	e Organics			
Client ID: LCSS	Batch ID: 5	1100	R	unNo: 67	313						
Prep Date: 3/13/2020	Analysis Date:	3/17/2020	S	eqNo: 23	21410	Units: %Rec					
Analyte	Result PQL	. SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: DNOP	4.2	5.000		84.7	55.1	146					
Sample ID: MB-51100	SampType: N	DType: MBLK TestCode: EPA Method					d 8015M/D: Diesel Range Organics				
Client ID: PBS	Batch ID: 5	1100	R	unNo: 67	313						
Prep Date: 3/13/2020	Analysis Date:	3/17/2020	S	eqNo: 23	21412	Units: %Rec					
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Surr: DNOP	9.0	10.00		90.4	55.1	146					
Sample ID: LCS-51201	SampType: L	.CS	Test	Code: EP	A Method	8015M/D: Die	sel Range	e Organics			
Client ID: LCSS	Batch ID: 5	1201	R	unNo: 67	313						
Dran Data: 2/40/2020					~~~~	Linker	~				
Prep Date: 3/18/2020	Analysis Date:	3/20/2020	S	eqNo: 23	26279	Units: mg/K	9				
Analyte	Analysis Date: Result PQL		S SPK Ref Val		LowLimit	HighLimit	9 %RPD	RPDLimit	Qual		
-		. SPK value					-	RPDLimit	Qual		
Analyte	Result PQL	. SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	-	RPDLimit	Qual		
Analyte Diesel Range Organics (DRO)	Result PQL 47 1	SPK value 50.00 5.000	SPK Ref Val 0	%REC 93.3 77.7	LowLimit 70 55.1	HighLimit 130	%RPD		Qual		
Analyte Diesel Range Organics (DRO) Surr: DNOP	Result PQL 47 1 3.9 1	. SPK value 0 50.00 5.000	SPK Ref Val 0 Test	%REC 93.3 77.7	LowLimit 70 55.1	HighLimit 130 146	%RPD		Qual		
Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: MB-51201	Result PQL 47 1 3.9 SampType: M	 SPK value 50.00 5.000 	SPK Ref Val 0 Test	%REC 93.3 77.7 Code: EP	LowLimit 70 55.1 A Method	HighLimit 130 146	%RPD		Qual		
Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: MB-51201 Client ID: PBS	Result PQL 47 1 3.9 SampType: I Batch ID: 5	SPK value 50.00 5.000 MBLK 51201 3/20/2020	SPK Ref Val 0 Test	%REC 93.3 77.7 Code: EP unNo: 67 eqNo: 23	LowLimit 70 55.1 A Method	HighLimit 130 146 8015M/D: Die	%RPD		Qual		
Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: MB-51201 Client ID: PBS Prep Date: 3/18/2020	ResultPQL4713.9SampType:IBatch ID:5Analysis Date:	SPK value 50.00 5.000 MBLK 1201 3/20/2020 SPK value 0	SPK Ref Val 0 Test R S	%REC 93.3 77.7 Code: EP unNo: 67 eqNo: 23	LowLimit 70 55.1 A Method 313 26281	HighLimit 130 146 8015M/D: Die Units: mg/K	%RPD sel Range	Organics			

Qualifiers:

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- J Analyte detected below quantitation limits
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RL Reporting Limit

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2003807
	25-Mar-20

Client:	Devon Er	nergy									
Project:	Red Bull	•••	l								
Sample ID:	2003807-001AMS	Samp	Туре: МS	34	Tes	tCode: F	PA Method	8260B: Volat	iles Short	List	
-	BS 20-01		h ID: 51			RunNo: 67474					
Prep Date:	3/18/2020	Analysis [SeqNo: 23		Units: mg/K	a		
•	5/10/2020					•		_	-		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene Toluene		0.83 0.98	0.025 0.050	0.9930 0.9930	0 0	83.7 98.3	80 80	120 120			
Ethylbenzene		1.0	0.050	0.9930	0	98.3 101	80 80	120			
Xylenes, Total		3.1	0.099	2.979	0	101	80	120			
	ofluorobenzene	0.45	0.000	0.4965	Ũ	90.7	70	130			
Surr: Toluene		0.51		0.4965		103	70	130			
0 1 15			T								
•	2003807-001AMSE	•	Туре: МS					8260B: Volat	iles Short	List	
	BS 20-01	Batch ID: 51198 RunNo: 67474									
Prep Date:	3/18/2020	Image: Mark 10 Analysis Date: 3/22/2020 SeqNo: 2328442 Units: mg/Kg									
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.79	0.025	0.9814	0	81.0	80	120	4.47	20	
Toluene		0.95	0.049	0.9814	0	96.8	80	120	2.72	20	
Ethylbenzene		0.98	0.049	0.9814	0	99.4	80	120	2.86	20	
Xylenes, Total		2.9	0.098	2.944	0	97.8	80	120	7.11	20	
	ofluorobenzene	0.41		0.4907		84.4	70	130	0	0	
Surr: Toluene	e-d8	0.49		0.4907		98.9	70	130	0	0	
Sample ID:	lcs-51198	Samp	Type: LC	S4	Tes	tCode: EF	PA Method	8260B: Volat	iles Short	List	
Client ID:	BatchQC	Batc	h ID: 51	198	RunNo: 67474						
Prep Date:	3/18/2020	Analysis [Date: 3/	22/2020	S	eqNo: 2	328460	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	92.0	80	120			
Toluene		1.0	0.050	1.000	0	104	80	120			
Ethylbenzene		1.1	0.050	1 000	0		00	120			
Xylenes, Total		1.1	0.050	1.000	0	109	80	120			
· · j · • · • • • •		3.2	0.050	3.000	0	109 108	80 80	120			
	ofluorobenzene										
		3.2		3.000		108	80	120			
Surr: 4-Brom	ə-d8	3.2 0.50 0.50		3.000 0.5000 0.5000	0	108 99.0 99.1	80 70 70	120 130	iles Short	List	
Surr: 4-Brome Surr: Toluene	e-d8 mb-51198	3.2 0.50 0.50 Samp	0.10	3.000 0.5000 0.5000	0 Test	108 99.0 99.1	80 70 70 PA Method	120 130 130	iles Short	List	
Surr: 4-Brome Surr: Toluene Sample ID:	e-d8 mb-51198	3.2 0.50 0.50 Samp	0.10 Type: ME h ID: 51	3.000 0.5000 0.5000 BLK 198	0 Tes: R	108 99.0 99.1 tCode: EF	80 70 70 PA Method 7474	120 130 130		List	
Surr: 4-Brome Surr: Toluene Sample ID: Client ID:	е-d8 mb-51198 PBS	3.2 0.50 0.50 Samp Batc	0.10 Type: ME h ID: 51	3.000 0.5000 0.5000 BLK 198 22/2020	0 Tes: R	108 99.0 99.1 tCode: EF	80 70 70 PA Method 7474	120 130 130 8260B: Vola t		List	Qual
Surr: 4-Brome Surr: Toluene Sample ID: Client ID: Prep Date: Analyte	е-d8 mb-51198 PBS	3.2 0.50 0.50 Samp Batc Analysis I	0.10 Type: ME th ID: 51 Date: 3 /	3.000 0.5000 0.5000 BLK 198 22/2020	0 Tes: R S	108 99.0 99.1 tCode: EF RunNo: 67 SeqNo: 23	80 70 70 PA Method 7474 328462	120 130 130 8260B: Volat Units: mg/K	g		Qual
Surr: 4-Brome Surr: Toluene Sample ID: Client ID: Prep Date: Analyte Benzene	е-d8 mb-51198 PBS	3.2 0.50 0.50 Samp Batc Analysis I Result	0.10 Type: ME th ID: 51 Date: 3 / PQL	3.000 0.5000 0.5000 BLK 198 22/2020	0 Tes: R S	108 99.0 99.1 tCode: EF RunNo: 67 SeqNo: 23	80 70 70 PA Method 7474 328462	120 130 130 8260B: Volat Units: mg/K	g		Qual
Surr: 4-Brome Surr: Toluene Sample ID: Client ID: Prep Date:	е-d8 mb-51198 PBS	3.2 0.50 0.50 Samp Batc Analysis I Result ND	0.10 Type: ME th ID: 51 Date: 3 / PQL 0.025	3.000 0.5000 0.5000 BLK 198 22/2020	0 Tes: R S	108 99.0 99.1 tCode: EF RunNo: 67 SeqNo: 23	80 70 70 PA Method 7474 328462	120 130 130 8260B: Volat Units: mg/K	g		Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

D Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix S

В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

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Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

0.48

0.49

0.50

	Devon Energy Red Bull 31 State 1								
Sample ID: mb-51198 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List									
Client ID: PBS	nt ID: PBS Batch ID: 51198 RunNo: 67474								
Prep Date: 3/18/20	Analysis Dat	e: 3/22/2020	S	SeqNo: 2	328462	Units: mg/K	g		
Analyte	Result	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethan	e-d4 0.44	0.5000		88.2	70	130			

96.5

97.7

99.1

70

70

70

130

130

130

0.5000

0.5000

0.5000

Qualifiers:

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

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2003807

25-Mar-20

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

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	WO#:	2003807
onmental Analysis Laboratory, Inc.		25-Mar-20

Client: Project:	Devon Er Red Bull	nergy 31 State 1									
Sample ID:	: 2003807-002AMSD SampType: MS				TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID:	BS 20-02	Batch	ID: 51	198	F	RunNo: 67474					
Prep Date:	3/18/2020	Analysis Da	ate: 3/	22/2020	S	SeqNo: 2	328593	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	18	4.9	24.32	0	75.2	70	130			
Surr: BFB		490		486.4		99.8	70	130			
Sample ID: 2003807-002AMSD SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range											
Client ID:	BS 20-02	Batch ID: 51198			F	RunNo: 67474					
Prep Date:	3/18/2020	Analysis Da	ate: 3/	22/2020	SeqNo: 2328594			Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	19	4.9	24.32	0	76.4	70	130	1.64	20	
Surr: BFB		480		486.4		97.8	70	130	0	0	
Sample ID:	pple ID: Ics-51198 SampType: LCS TestCode: EPA Method 8015D Mod: Gasoline Range										
Client ID:	LCSS	Batch	ID: 51	198	RunNo: 67474						
Prep Date:	3/18/2020	Analysis Date: 3/22/2020		SeqNo: 2328611		Units: mg/Kg					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	21	5.0	25.00	0	83.9	70	130			
Surr: BFB		510		500.0		101	70	130			
Sample ID:	mb-51198	SampType: MBLK TestCode: EPA Method 8015D Mod: Gasoline Range									
Client ID:	PBS	Batch ID: 51198			RunNo: 67474						
Prep Date:	3/18/2020	Analysis Date: 3/22/2020			SeqNo: 2328613			Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ge Organics (GRO)	ND	5.0	500.0				105			
Surr: BFB		490		500.0		98.4	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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HALL ENVIRONMENTAL ANALYSIS LABORATORY		7 TEL: 505-345-3	ttal Analysis Labo 4901 Hawk Albuquerque, NM 275 FAX: 505-345 hallenvironment	ins NE 87109 San 5-4107	Page Sample Log-In Check List		
Client Name: E	DEVON ENERGY	Work Order Numb	ber: 2003807		RcptNo: 1		
Received By:	Yazmine Garduno	3/18/2020 8:25:00 /	M	Afrynin hifwdert	š		
Completed By:	Isaiah Ortiz	3/18/2020 10:03:30	AM	エーク	X		
Reviewed By: J	R 3/18/20				1		
Chain of Custo	dy						
1. Is Chain of Cus	tody sufficiently complete	e?	Yes 🗹	No 🗌	Not Present		
2. How was the sa	mple delivered?		Courier				
<u>Log In</u>				_	_		
3. Was an attempt	made to cool the sampl	es?	Yes 🗹	No 🗌			
4. Were all sample	s received at a temperat	ure of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌		
5. Sample(s) in pro	oper container(s)?		Yes 🗹	No 🗌			
6. Sufficient sample	e volume for indicated te	st(s)?	Yes 🗹	No 🗆			
7. Are samples (ex	cept VOA and ONG) pro	perly preserved?	Yes 🗹	No 🗌			
8. Was preservative	e added to bottles?		Yes 🗌	No 🗹	NA 🗆		
9. Received at leas	t 1 vial with headspace <	1/4" for AQ VOA?	Yes	No 🗌	NA 🔽		
10. Were any sampl	le containers received br	oken?	Yes	No 🗹	# of preserved		
	match bottle labels? cies on chain of custody)		Yes 🗹	No 🗌	bottles checked for pH: (<2 or >12 y	unless noted	
12. Are matrices cor	rectly identified on Chair	of Custody?	Yes 🗹	No 🗌	Adjusted?		
13. Is it clear what a	nalyses were requested?	,	Yes 🗹	No 🗌			
	times able to be met? omer for authorization.)		Yes 🗹	No 🗌	Checked by: DAD	3/18/20	
<u>Special Handlin</u>	<u>g (if applicable)</u>				ζ		
15. Was client notifi	ed of all discrepancies w	ith this order?	Yes	No 🗌	NA 🗹		
Person No	otified:	Date:	T				
By Whom:	: [. Via:	eMail 🗌	Phone 🗌 Fax	In Person		
Regarding	:				· · · · · · · · · · · · · · · · · · ·		
Client Inst		······					
16. Additional rema	irks:						
17. <u>Cooler Informa</u>		n 19 <u>19</u> - 1919 - 1919 - 1919 - 1914 - 191			:		
Cooler No	Temp °C Condition	Seal Intact Seal No	Seal Date	Signed By			
		Not Present					

HALL ENVIRONMENTAL ANALYSIS LABORATORY	antal com	37109	i Fax 505-345-4107	Analysis Request	↓O	s '⁺o⊣ SMIS0	/8082 of 8270 of 80 of 80	√O/ (10 c (10 c (10 c (10 c (10 c) (10 c) (etho y 83 hr, N (AO) emi-	8081 PG 8081 PG PPHs b 8260 (V 8270 (S Total Co											Bill to Deven [W0# 30829672] B	-tex.	. Any sub-contracted data will be clearly notated on the analytical report
Turn-Around Time: 5-day FStandard 🗆 Rush		Red Bul 131 State 1	Project #: 20E - 00141-012	W0# 30829673	()				(including cr): 1 3 1 ()- () ≲) 1 (°C)	Container Preservative 34 FOU 34 S	ice - mi		-003		- 005	-006	- 004	↓ 1 -008 ↓ ↓		Received his Via Date Time Domo	17/20 1430	<u>ں</u>	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
Client: DEVON ENERGY		Mailing Address:	ONFILE	Phone #:	email or Fax#: Amavida DaviS	QA/QC Package:	Accreditation:	🗆 EDD (Type)		Date Time Matrix Sample Name	3/16/20 1215 Soil B520-01	1 1645 1 BS 20-02	1600 BS 20-03	1245 BS 20-04	1400 8520-05	13 45 BS 20-06	1330 BS 20-07	V 1315 V BS 20-08		Date: Time: Relinquiched by	ochi oe	Date: Time: Reflinguished by:	If necessary, samples submitted to Hall Environmental may be subc



July 09, 2020

Natalie Gordon Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (575) 748-0176 FAX:

RE: Red Bull 31 State 1

OrderNo.: 2007006

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 43 sample(s) on 7/1/2020 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy		Cl	ient Sample II	D:BS	\$20-01 1'					
Project: Red Bull 31 State 1	Collection Date: 6/29/2020 9:00:00 AM									
Lab ID: 2007006-001	Matrix: SOIL Received Date: 7/1/2020 9:20:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	t: JMT				
Chloride	330	60	mg/Kg	20	7/7/2020 3:57:19 PM	53538				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: BRM				
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/4/2020 8:33:30 PM	53455				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/4/2020 8:33:30 PM	53455				
Surr: DNOP	65.7	55.1-146	%Rec	1	7/4/2020 8:33:30 PM	53455				
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: RAA				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/3/2020 9:52:11 PM	53450				
Surr: BFB	98.0	66.6-105	%Rec	1	7/3/2020 9:52:11 PM	53450				
EPA METHOD 8021B: VOLATILES					Analys	t: RAA				
Benzene	ND	0.025	mg/Kg	1	7/3/2020 9:52:11 PM	53450				
Toluene	ND	0.049	mg/Kg	1	7/3/2020 9:52:11 PM	53450				
Ethylbenzene	ND	0.049	mg/Kg	1	7/3/2020 9:52:11 PM	53450				
Xylenes, Total	ND	0.098	mg/Kg	1	7/3/2020 9:52:11 PM	53450				
Surr: 4-Bromofluorobenzene	108	80-120	%Rec	1	7/3/2020 9:52:11 PM	53450				

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy Project: Red Bull 31 State 1	Client Sample ID: BS20-02 1' Collection Date: 6/29/2020 9:10:00 AM									
Lab ID: 2007006-002	Matrix: SOIL Received Date: 7/1/2020 9:20:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	: JMT				
Chloride	ND	60	mg/Kg	20	7/7/2020 4:09:44 PM	53538				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/4/2020 9:46:30 PM	53455				
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/4/2020 9:46:30 PM	53455				
Surr: DNOP	68.1	55.1-146	%Rec	1	7/4/2020 9:46:30 PM	53455				
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	RAA				
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/3/2020 11:03:16 PM	53450				
Surr: BFB	98.0	66.6-105	%Rec	1	7/3/2020 11:03:16 PM	53450				
EPA METHOD 8021B: VOLATILES					Analyst	: RAA				
Benzene	ND	0.025	mg/Kg	1	7/3/2020 11:03:16 PM	53450				
Toluene	ND	0.050	mg/Kg	1	7/3/2020 11:03:16 PM	53450				
Ethylbenzene	ND	0.050	mg/Kg	1	7/3/2020 11:03:16 PM	53450				
Xylenes, Total	ND	0.10	mg/Kg	1	7/3/2020 11:03:16 PM	53450				
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	7/3/2020 11:03:16 PM	53450				

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental	Analysis	Laboratory,	Inc.

Lab Order 2007006

Date Reported: 7/9/2020

	Devon Energy			ient Sample							
Project:	Red Bull 31 State 1	Collection Date: 6/29/2020 9:20:00 AM									
Lab ID:	2007006-003	Matrix: SOIL		Received D	ate: 7/	1/2020 9:20:00 AM					
Analyses		Result	RL	Qual Units	5 DF	Date Analyzed	Batch				
EPA MET	THOD 300.0: ANIONS					Analys	t: JMT				
Chloride		330	60	mg/K	g 20	7/7/2020 4:22:08 PM	53538				
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: BRM				
Diesel R	ange Organics (DRO)	11	9.6	mg/K	g 1	7/4/2020 10:10:42 PM	53455				
Motor Oi	I Range Organics (MRO)	ND	48	mg/K	g 1	7/4/2020 10:10:42 PM	53455				
Surr: I	DNOP	79.4	55.1-146	%Red	; 1	7/4/2020 10:10:42 PM	53455				
EPA MET	HOD 8015D: GASOLINE RANGE					Analys	t: RAA				
Gasoline	Range Organics (GRO)	ND	4.9	mg/K	g 1	7/4/2020 12:14:00 AM	53450				
Surr: I	BFB	94.2	66.6-105	%Red	; 1	7/4/2020 12:14:00 AM	53450				
EPA MET	THOD 8021B: VOLATILES					Analys	t: RAA				
Benzene		ND	0.024	mg/K	g 1	7/4/2020 12:14:00 AM	53450				
Toluene		ND	0.049	mg/K	g 1	7/4/2020 12:14:00 AM	53450				
Ethylben	izene	ND	0.049	mg/K	g 1	7/4/2020 12:14:00 AM	53450				
Xylenes,	Total	ND	0.098	mg/K	g 1	7/4/2020 12:14:00 AM	53450				
Surr: 4	4-Bromofluorobenzene	105	80-120	%Red	; 1	7/4/2020 12:14:00 AM	53450				

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy		C	ient Sample I	D: BS	520-04 1'					
Project: Red Bull 31 State 1	Collection Date: 6/29/2020 9:30:00 AM									
Lab ID: 2007006-004	Matrix: SOIL		Received Dat	e: 7 /1	1/2020 9:20:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst:	ЈМТ				
Chloride	130	60	mg/Kg	20	7/7/2020 4:34:33 PM	53538				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/4/2020 10:34:53 PM	53455				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/4/2020 10:34:53 PM	53455				
Surr: DNOP	70.0	55.1-146	%Rec	1	7/4/2020 10:34:53 PM	53455				
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	RAA				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/4/2020 12:37:34 AM	53450				
Surr: BFB	94.7	66.6-105	%Rec	1	7/4/2020 12:37:34 AM	53450				
EPA METHOD 8021B: VOLATILES					Analyst	RAA				
Benzene	ND	0.024	mg/Kg	1	7/4/2020 12:37:34 AM	53450				
Toluene	ND	0.049	mg/Kg	1	7/4/2020 12:37:34 AM	53450				
Ethylbenzene	ND	0.049	mg/Kg	1	7/4/2020 12:37:34 AM	53450				
Xylenes, Total	ND	0.098	mg/Kg	1	7/4/2020 12:37:34 AM	53450				
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	7/4/2020 12:37:34 AM	53450				

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy	Client Sample ID: BS20-05 1'									
Project: Red Bull 31 State 1	Collection Date: 6/29/2020 9:40:00 AM									
Lab ID: 2007006-005	Matrix: SOIL Received Date: 7/1/2020 9:20:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	: JMT				
Chloride	ND	60	mg/Kg	20	7/7/2020 4:46:57 PM	53538				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/4/2020 10:59:04 PM	53455				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/4/2020 10:59:04 PM	53455				
Surr: DNOP	82.9	55.1-146	%Rec	1	7/4/2020 10:59:04 PM	53455				
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	RAA				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/4/2020 1:01:11 AM	53450				
Surr: BFB	96.0	66.6-105	%Rec	1	7/4/2020 1:01:11 AM	53450				
EPA METHOD 8021B: VOLATILES					Analyst	RAA				
Benzene	ND	0.025	mg/Kg	1	7/4/2020 1:01:11 AM	53450				
Toluene	ND	0.049	mg/Kg	1	7/4/2020 1:01:11 AM	53450				
Ethylbenzene	ND	0.049	mg/Kg	1	7/4/2020 1:01:11 AM	53450				
Xylenes, Total	ND	0.098	mg/Kg	1	7/4/2020 1:01:11 AM	53450				
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	7/4/2020 1:01:11 AM	53450				

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy	Client Sample ID: BS20-06 1' Collection Date: 6/29/2020 9:50:00 AM									
Project: Red Bull 31 State 1										
Lab ID: 2007006-006	Matrix: SOIL		Received Dat	e: 7/1	1/2020 9:20:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	: JMT				
Chloride	130	60	mg/Kg	20	7/7/2020 4:59:22 PM	53538				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/4/2020 11:23:14 PM	53455				
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/4/2020 11:23:14 PM	53455				
Surr: DNOP	83.4	55.1-146	%Rec	1	7/4/2020 11:23:14 PM	53455				
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA				
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/4/2020 2:11:45 AM	53450				
Surr: BFB	96.0	66.6-105	%Rec	1	7/4/2020 2:11:45 AM	53450				
EPA METHOD 8021B: VOLATILES					Analyst	RAA				
Benzene	ND	0.025	mg/Kg	1	7/4/2020 2:11:45 AM	53450				
Toluene	ND	0.050	mg/Kg	1	7/4/2020 2:11:45 AM	53450				
Ethylbenzene	ND	0.050	mg/Kg	1	7/4/2020 2:11:45 AM	53450				
Xylenes, Total	ND	0.10	mg/Kg	1	7/4/2020 2:11:45 AM	53450				
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	7/4/2020 2:11:45 AM	53450				

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmen	tal Analysis	Laboratory, Inc.
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Lab Order 2007006

Date Reported: 7/9/2020

CLIENT:	Devon Energy		Cl	ient Sample	ID: BS	\$20-07 1'					
Project:	Red Bull 31 State 1	Collection Date: 6/29/2020 10:00:00 AM									
Lab ID:	2007006-007	Matrix: SOIL		Received Da	ate: 7/1	1/2020 9:20:00 AM					
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA MET	HOD 300.0: ANIONS					Analyst	: JMT				
Chloride		88	59	mg/K	g 20	7/7/2020 5:11:47 PM	53538				
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel R	ange Organics (DRO)	ND	9.4	mg/K	g 1	7/4/2020 11:47:26 PM	53455				
Motor Oi	I Range Organics (MRO)	ND	47	mg/K	g 1	7/4/2020 11:47:26 PM	53455				
Surr: [ONOP	88.8	55.1-146	%Rec	; 1	7/4/2020 11:47:26 PM	53455				
EPA MET	HOD 8015D: GASOLINE RANGE					Analyst	RAA				
Gasoline	Range Organics (GRO)	ND	4.9	mg/K	g 1	7/4/2020 2:35:14 AM	53450				
Surr: E	3FB	97.0	66.6-105	%Red	; 1	7/4/2020 2:35:14 AM	53450				
EPA MET	HOD 8021B: VOLATILES					Analyst	RAA				
Benzene		ND	0.024	mg/K	g 1	7/4/2020 2:35:14 AM	53450				
Toluene		ND	0.049	mg/K	g 1	7/4/2020 2:35:14 AM	53450				
Ethylben	zene	ND	0.049	mg/K	g 1	7/4/2020 2:35:14 AM	53450				
Xylenes,	Total	ND	0.097	mg/K	g 1	7/4/2020 2:35:14 AM	53450				
Surr: 4	4-Bromofluorobenzene	107	80-120	%Rec	; 1	7/4/2020 2:35:14 AM	53450				

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy Project: Red Bull 31 State 1	Client Sample ID: BS20-08 1' Collection Date: 6/29/2020 10:10:00 AM									
Lab ID: 2007006-008	Matrix: SOIL Received Date: 7/1/2020 9:20:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	: JMT				
Chloride	ND	60	mg/Kg	20	7/7/2020 5:49:01 PM	53538				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/5/2020 12:11:42 AM	53455				
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/5/2020 12:11:42 AM	53455				
Surr: DNOP	80.7	55.1-146	%Rec	1	7/5/2020 12:11:42 AM	53455				
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/4/2020 2:58:43 AM	53450				
Surr: BFB	97.0	66.6-105	%Rec	1	7/4/2020 2:58:43 AM	53450				
EPA METHOD 8021B: VOLATILES					Analyst	: RAA				
Benzene	ND	0.025	mg/Kg	1	7/4/2020 2:58:43 AM	53450				
Toluene	ND	0.049	mg/Kg	1	7/4/2020 2:58:43 AM	53450				
Ethylbenzene	ND	0.049	mg/Kg	1	7/4/2020 2:58:43 AM	53450				
Xylenes, Total	ND	0.098	mg/Kg	1	7/4/2020 2:58:43 AM	53450				
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	7/4/2020 2:58:43 AM	53450				

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy	Client Sample ID: BS20-09 1'									
Project: Red Bull 31 State 1	Collection Date: 6/29/2020 10:20:00 AM									
Lab ID: 2007006-009	Matrix: SOIL Received Date: 7/1/2020 9:20:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	: JMT				
Chloride	180	60	mg/Kg	20	7/7/2020 6:01:25 PM	53538				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel Range Organics (DRO)	16	9.8	mg/Kg	1	7/5/2020 12:35:58 AM	53455				
Motor Oil Range Organics (MRO)	55	49	mg/Kg	1	7/5/2020 12:35:58 AM	53455				
Surr: DNOP	79.5	55.1-146	%Rec	1	7/5/2020 12:35:58 AM	53455				
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	RAA				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/4/2020 3:22:14 AM	53450				
Surr: BFB	94.2	66.6-105	%Rec	1	7/4/2020 3:22:14 AM	53450				
EPA METHOD 8021B: VOLATILES					Analyst	RAA				
Benzene	ND	0.024	mg/Kg	1	7/4/2020 3:22:14 AM	53450				
Toluene	ND	0.049	mg/Kg	1	7/4/2020 3:22:14 AM	53450				
Ethylbenzene	ND	0.049	mg/Kg	1	7/4/2020 3:22:14 AM	53450				
Xylenes, Total	ND	0.098	mg/Kg	1	7/4/2020 3:22:14 AM	53450				
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	7/4/2020 3:22:14 AM	53450				

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy		Cl	ient Sample II	D: BS	320-10 1'	
Project: Red Bull 31 State 1	Collection Date: 6/29/2020 10:30:00 AM					
Lab ID: 2007006-010	Matrix: SOIL		Received Dat	e: 7/1	/2020 9:20:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	120	60	mg/Kg	20	7/7/2020 6:13:49 PM	53538
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: CLP
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/7/2020 2:53:39 AM	53455
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/7/2020 2:53:39 AM	53455
Surr: DNOP	79.9	55.1-146	%Rec	1	7/7/2020 2:53:39 AM	53455
EPA METHOD 8015D: GASOLINE RANGE	E				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/4/2020 3:45:38 AM	53450
Surr: BFB	93.8	66.6-105	%Rec	1	7/4/2020 3:45:38 AM	53450
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.025	mg/Kg	1	7/4/2020 3:45:38 AM	53450
Toluene	ND	0.050	mg/Kg	1	7/4/2020 3:45:38 AM	53450
Ethylbenzene	ND	0.050	mg/Kg	1	7/4/2020 3:45:38 AM	53450
Xylenes, Total	ND	0.099	mg/Kg	1	7/4/2020 3:45:38 AM	53450
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	7/4/2020 3:45:38 AM	53450

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy Project: Red Bull 31 State 1	Client Sample ID: BS20-11 1' Collection Date: 6/29/2020 10:40:00 AM					
Lab ID: 2007006-011	Matrix: SOIL		Received Dat	e: 7/1	/2020 9:20:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	96	60	mg/Kg	20	7/7/2020 6:26:14 PM	53538
EPA METHOD 8015M/D: DIESEL RANGE	E ORGANICS				Analys	t: BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/5/2020 1:24:35 AM	53455
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/5/2020 1:24:35 AM	53455
Surr: DNOP	91.9	55.1-146	%Rec	1	7/5/2020 1:24:35 AM	53455
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/4/2020 4:09:07 AM	53450
Surr: BFB	93.3	66.6-105	%Rec	1	7/4/2020 4:09:07 AM	53450
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.025	mg/Kg	1	7/4/2020 4:09:07 AM	53450
Toluene	ND	0.049	mg/Kg	1	7/4/2020 4:09:07 AM	53450
Ethylbenzene	ND	0.049	mg/Kg	1	7/4/2020 4:09:07 AM	53450
Xylenes, Total	ND	0.099	mg/Kg	1	7/4/2020 4:09:07 AM	53450
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	7/4/2020 4:09:07 AM	53450

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy	Client Sample ID: BS20-12 1'					
Project: Red Bull 31 State 1	Collection Date: 6/29/2020 10:50:00 AM					
Lab ID: 2007006-012	Matrix: SOIL		Received Dat	e: 7/1	/2020 9:20:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	140	60	mg/Kg	20	7/7/2020 6:38:39 PM	53538
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: BRM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/5/2020 1:48:49 AM	53455
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/5/2020 1:48:49 AM	53455
Surr: DNOP	93.2	55.1-146	%Rec	1	7/5/2020 1:48:49 AM	53455
EPA METHOD 8015D: GASOLINE RANGE	1				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/4/2020 4:32:33 AM	53450
Surr: BFB	95.5	66.6-105	%Rec	1	7/4/2020 4:32:33 AM	53450
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.024	mg/Kg	1	7/4/2020 4:32:33 AM	53450
Toluene	ND	0.049	mg/Kg	1	7/4/2020 4:32:33 AM	53450
Ethylbenzene	ND	0.049	mg/Kg	1	7/4/2020 4:32:33 AM	53450
Xylenes, Total	ND	0.097	mg/Kg	1	7/4/2020 4:32:33 AM	53450
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	7/4/2020 4:32:33 AM	53450

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL Reporting Limit

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Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy	Client Sample ID: BS20-13 1'					
Project: Red Bull 31 State 1	Collection Date: 6/29/2020 11:00:00 AM					
Lab ID: 2007006-013	Matrix: SOIL		Received Dat	e: 7/1	/2020 9:20:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	250	60	mg/Kg	20	7/7/2020 6:51:03 PM	53538
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: BRM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/5/2020 2:12:59 AM	53455
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/5/2020 2:12:59 AM	53455
Surr: DNOP	81.7	55.1-146	%Rec	1	7/5/2020 2:12:59 AM	53455
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/4/2020 4:56:00 AM	53450
Surr: BFB	96.0	66.6-105	%Rec	1	7/4/2020 4:56:00 AM	53450
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.024	mg/Kg	1	7/4/2020 4:56:00 AM	53450
Toluene	ND	0.049	mg/Kg	1	7/4/2020 4:56:00 AM	53450
Ethylbenzene	ND	0.049	mg/Kg	1	7/4/2020 4:56:00 AM	53450
Xylenes, Total	ND	0.098	mg/Kg	1	7/4/2020 4:56:00 AM	53450
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	7/4/2020 4:56:00 AM	53450

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy		Cl	ient Sample	ID: B	\$20-14 1'	
Project: Red Bull 31 State 1	Collection Date: 6/29/2020 11:10:00 AM					
Lab ID: 2007006-014	Matrix: SOIL		Received D	ate: 7/	1/2020 9:20:00 AM	
Analyses	Result	RL	Qual Units	s DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: CAS
Chloride	ND	60	mg/K	g 20	7/7/2020 5:53:44 PM	53548
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: BRM
Diesel Range Organics (DRO)	ND	9.8	mg/K	g 1	7/5/2020 2:37:14 AM	53455
Motor Oil Range Organics (MRO)	ND	49	mg/K	g 1	7/5/2020 2:37:14 AM	53455
Surr: DNOP	82.1	55.1-146	%Re	: 1	7/5/2020 2:37:14 AM	53455
EPA METHOD 8015D: GASOLINE RANGE	1				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/K	g 1	7/4/2020 5:19:32 AM	53450
Surr: BFB	94.5	66.6-105	%Re	c 1	7/4/2020 5:19:32 AM	53450
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.024	mg/K	g 1	7/4/2020 5:19:32 AM	53450
Toluene	ND	0.049	mg/K	g 1	7/4/2020 5:19:32 AM	53450
Ethylbenzene	ND	0.049	mg/K	g 1	7/4/2020 5:19:32 AM	53450
Xylenes, Total	ND	0.097	mg/K	g 1	7/4/2020 5:19:32 AM	53450
Surr: 4-Bromofluorobenzene	106	80-120	%Re	c 1	7/4/2020 5:19:32 AM	53450

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy	Client Sample ID: BS20-15 1'					
Project: Red Bull 31 State 1		(29/2020 11:20:00 AM	
Lab ID: 2007006-015	Matrix: SOIL		Received Dat	e: //1	1/2020 9:20:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: CAS
Chloride	ND	60	mg/Kg	20	7/7/2020 6:30:48 PM	53548
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/5/2020 3:25:38 AM	53455
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/5/2020 3:25:38 AM	53455
Surr: DNOP	96.7	55.1-146	%Rec	1	7/5/2020 3:25:38 AM	53455
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/4/2020 5:43:09 AM	53450
Surr: BFB	96.6	66.6-105	%Rec	1	7/4/2020 5:43:09 AM	53450
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.025	mg/Kg	1	7/4/2020 5:43:09 AM	53450
Toluene	ND	0.050	mg/Kg	1	7/4/2020 5:43:09 AM	53450
Ethylbenzene	ND	0.050	mg/Kg	1	7/4/2020 5:43:09 AM	53450
Xylenes, Total	ND	0.10	mg/Kg	1	7/4/2020 5:43:09 AM	53450
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	7/4/2020 5:43:09 AM	53450

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmen	tal Analysis	Laboratory, Inc.
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Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy	Client Sample ID: BS20-16 1'					
Project: Red Bull 31 State 1		(Collection D	ate: 6/2	29/2020 11:30:00 AM	
Lab ID: 2007006-016	Matrix: SOIL		Received D	ate: 7/	1/2020 9:20:00 AM	
Analyses	Result	RL	Qual Unit	s DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: CAS
Chloride	ND	60	mg/K	g 20	7/7/2020 7:07:51 PM	53548
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: BRM
Diesel Range Organics (DRO)	ND	9.5	mg/K	g 1	7/5/2020 3:49:43 AM	53455
Motor Oil Range Organics (MRO)	ND	47	mg/K	g 1	7/5/2020 3:49:43 AM	53455
Surr: DNOP	100	55.1-146	%Re	c 1	7/5/2020 3:49:43 AM	53455
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/K	g 1	7/4/2020 8:03:54 AM	53450
Surr: BFB	92.2	66.6-105	%Re	c 1	7/4/2020 8:03:54 AM	53450
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.025	mg/K	g 1	7/4/2020 8:03:54 AM	53450
Toluene	ND	0.050	mg/K	g 1	7/4/2020 8:03:54 AM	53450
Ethylbenzene	ND	0.050	mg/K	g 1	7/4/2020 8:03:54 AM	53450
Xylenes, Total	ND	0.10	mg/K	g 1	7/4/2020 8:03:54 AM	53450
Surr: 4-Bromofluorobenzene	103	80-120	%Re	2 1	7/4/2020 8:03:54 AM	53450

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
 - Reporting Limit

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Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy	Client Sample ID: BS20-17 1'							
Project: Red Bull 31 State 1	Collection Date: 6/29/2020 11:40:00 AM							
Lab ID: 2007006-017	Matrix: SOIL		Received Dat	e: 7/1	1/2020 9:20:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst:	CAS		
Chloride	150	60	mg/Kg	20	7/7/2020 7:20:12 PM	53548		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	BRM		
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	7/5/2020 4:13:48 AM	53455		
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/5/2020 4:13:48 AM	53455		
Surr: DNOP	88.3	55.1-146	%Rec	1	7/5/2020 4:13:48 AM	53455		
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	RAA		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/4/2020 8:27:22 AM	53450		
Surr: BFB	96.9	66.6-105	%Rec	1	7/4/2020 8:27:22 AM	53450		
EPA METHOD 8021B: VOLATILES					Analyst:	RAA		
Benzene	ND	0.025	mg/Kg	1	7/4/2020 8:27:22 AM	53450		
Toluene	ND	0.050	mg/Kg	1	7/4/2020 8:27:22 AM	53450		
Ethylbenzene	ND	0.050	mg/Kg	1	7/4/2020 8:27:22 AM	53450		
Xylenes, Total	ND	0.099	mg/Kg	1	7/4/2020 8:27:22 AM	53450		
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	7/4/2020 8:27:22 AM	53450		

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy Project: Red Bull 31 State 1			ient Sample II Collection Dat		520-18 1' 29/2020 11:50:00 AM	
Lab ID: 2007006-018	Matrix: SOIL		Received Date	e: 7/1	/2020 9:20:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: CAS
Chloride	220	61	mg/Kg	20	7/7/2020 7:57:17 PM	53548
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: BRM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/5/2020 4:37:50 AM	53455
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/5/2020 4:37:50 AM	53455
Surr: DNOP	86.9	55.1-146	%Rec	1	7/5/2020 4:37:50 AM	53455
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/4/2020 8:50:53 AM	53450
Surr: BFB	92.3	66.6-105	%Rec	1	7/4/2020 8:50:53 AM	53450
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.025	mg/Kg	1	7/4/2020 8:50:53 AM	53450
Toluene	ND	0.049	mg/Kg	1	7/4/2020 8:50:53 AM	53450
Ethylbenzene	ND	0.049	mg/Kg	1	7/4/2020 8:50:53 AM	53450
Xylenes, Total	ND	0.099	mg/Kg	1	7/4/2020 8:50:53 AM	53450
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	7/4/2020 8:50:53 AM	53450

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy			ient Sample I			
Project: Red Bull 31 State 1			Collection Dat	:e: 6/2	29/2020 12:00:00 PM	
Lab ID: 2007006-019	Matrix: SOIL		Received Dat	e: 7/1	/2020 9:20:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: CAS
Chloride	140	60	mg/Kg	20	7/7/2020 8:09:38 PM	53548
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: BRM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	7/5/2020 5:01:57 AM	53455
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/5/2020 5:01:57 AM	53455
Surr: DNOP	92.0	55.1-146	%Rec	1	7/5/2020 5:01:57 AM	53455
EPA METHOD 8015D: GASOLINE RANGE	1				Analys	t: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/4/2020 9:14:22 AM	53450
Surr: BFB	95.3	66.6-105	%Rec	1	7/4/2020 9:14:22 AM	53450
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.025	mg/Kg	1	7/4/2020 9:14:22 AM	53450
Toluene	ND	0.050	mg/Kg	1	7/4/2020 9:14:22 AM	53450
Ethylbenzene	ND	0.050	mg/Kg	1	7/4/2020 9:14:22 AM	53450
Xylenes, Total	ND	0.10	mg/Kg	1	7/4/2020 9:14:22 AM	53450
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	7/4/2020 9:14:22 AM	53450

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
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Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy	Client Sample ID: BS20-20 1'						
Project: Red Bull 31 State 1			Collection Dat	e: 6/2	29/2020 12:10:00 PM		
Lab ID: 2007006-020	Matrix: SOIL Received Date: 7/1/2020 9:20:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: CAS	
Chloride	170	60	mg/Kg	20	7/7/2020 8:22:00 PM	53548	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: BRM	
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	7/5/2020 5:26:01 AM	53455	
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/5/2020 5:26:01 AM	53455	
Surr: DNOP	89.5	55.1-146	%Rec	1	7/5/2020 5:26:01 AM	53455	
EPA METHOD 8015D: GASOLINE RANGE	1				Analys	t: RAA	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/4/2020 9:37:47 AM	53450	
Surr: BFB	95.4	66.6-105	%Rec	1	7/4/2020 9:37:47 AM	53450	
EPA METHOD 8021B: VOLATILES					Analys	t: RAA	
Benzene	ND	0.025	mg/Kg	1	7/4/2020 9:37:47 AM	53450	
Toluene	ND	0.050	mg/Kg	1	7/4/2020 9:37:47 AM	53450	
Ethylbenzene	ND	0.050	mg/Kg	1	7/4/2020 9:37:47 AM	53450	
Xylenes, Total	ND	0.099	mg/Kg	1	7/4/2020 9:37:47 AM	53450	
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	7/4/2020 9:37:47 AM	53450	

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy		Cl	ient Sample I	D: BS	\$20-21 1'	
Project: Red Bull 31 State 1		(Collection Dat	e: 6/2	29/2020 12:20:00 PM	
Lab ID: 2007006-021	Matrix: SOIL		Received Dat	e: 7/1	/2020 9:20:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	100	60	mg/Kg	20	7/7/2020 8:34:21 PM	53548
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	7/5/2020 7:58:53 AM	53480
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	7/5/2020 7:58:53 AM	53480
Surr: DNOP	68.8	55.1-146	%Rec	1	7/5/2020 7:58:53 AM	53480
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/4/2020 10:01:15 AM	53454
Surr: BFB	96.8	66.6-105	%Rec	1	7/4/2020 10:01:15 AM	53454
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	7/4/2020 10:01:15 AM	53454
Toluene	ND	0.050	mg/Kg	1	7/4/2020 10:01:15 AM	53454
Ethylbenzene	ND	0.050	mg/Kg	1	7/4/2020 10:01:15 AM	53454
Xylenes, Total	ND	0.099	mg/Kg	1	7/4/2020 10:01:15 AM	53454
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	7/4/2020 10:01:15 AM	53454

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy	Client Sample ID: BS20-22 1' Collection Date: 6/29/2020 12:30:00 PM						
Project: Red Bull 31 State 1		(
Lab ID: 2007006-022	Matrix: SOIL Received Date: 7/1/2020 9:20:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	CAS	
Chloride	140	60	mg/Kg	20	7/7/2020 8:46:42 PM	53548	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM	
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/5/2020 9:12:01 AM	53480	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/5/2020 9:12:01 AM	53480	
Surr: DNOP	65.4	55.1-146	%Rec	1	7/5/2020 9:12:01 AM	53480	
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	RAA	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/4/2020 11:11:46 AM	53454	
Surr: BFB	93.7	66.6-105	%Rec	1	7/4/2020 11:11:46 AM	53454	
EPA METHOD 8021B: VOLATILES					Analyst	RAA	
Benzene	ND	0.024	mg/Kg	1	7/4/2020 11:11:46 AM	53454	
Toluene	ND	0.048	mg/Kg	1	7/4/2020 11:11:46 AM	53454	
Ethylbenzene	ND	0.048	mg/Kg	1	7/4/2020 11:11:46 AM	53454	
Xylenes, Total	ND	0.096	mg/Kg	1	7/4/2020 11:11:46 AM	53454	
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	7/4/2020 11:11:46 AM	53454	

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy Project: Red Bull 31 State 1	Client Sample ID: WS20-01 0-1' Collection Date: 6/29/2020 12:40:00 PM						
Lab ID: 2007006-023	Matrix: SOIL Received Date: 7/1/2020 9:20:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	CAS	
Chloride	190	60	mg/Kg	20	7/7/2020 8:59:04 PM	53548	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/5/2020 9:36:14 AM	53480	
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	7/5/2020 9:36:14 AM	53480	
Surr: DNOP	72.7	55.1-146	%Rec	1	7/5/2020 9:36:14 AM	53480	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	RAA	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/4/2020 12:22:19 PM	53454	
Surr: BFB	93.1	66.6-105	%Rec	1	7/4/2020 12:22:19 PM	53454	
EPA METHOD 8021B: VOLATILES					Analyst	RAA	
Benzene	ND	0.024	mg/Kg	1	7/4/2020 12:22:19 PM	53454	
Toluene	ND	0.048	mg/Kg	1	7/4/2020 12:22:19 PM	53454	
Ethylbenzene	ND	0.048	mg/Kg	1	7/4/2020 12:22:19 PM	53454	
Xylenes, Total	ND	0.095	mg/Kg	1	7/4/2020 12:22:19 PM	53454	
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	7/4/2020 12:22:19 PM	53454	

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy Project: Red Bull 31 State 1	Client Sample ID: WS20-02 0-1' Collection Date: 6/29/2020 12:50:00 PM						
Lab ID: 2007006-024	Matrix: SOIL Received Date: 7/1/2020 9:20:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	CAS	
Chloride	160	61	mg/Kg	20	7/7/2020 9:11:24 PM	53548	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/5/2020 10:00:36 AM	53480	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/5/2020 10:00:36 AM	53480	
Surr: DNOP	83.6	55.1-146	%Rec	1	7/5/2020 10:00:36 AM	53480	
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	RAA	
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/4/2020 12:45:54 PM	53454	
Surr: BFB	94.4	66.6-105	%Rec	1	7/4/2020 12:45:54 PM	53454	
EPA METHOD 8021B: VOLATILES					Analyst	RAA	
Benzene	ND	0.023	mg/Kg	1	7/4/2020 12:45:54 PM	53454	
Toluene	ND	0.046	mg/Kg	1	7/4/2020 12:45:54 PM	53454	
Ethylbenzene	ND	0.046	mg/Kg	1	7/4/2020 12:45:54 PM	53454	
Xylenes, Total	ND	0.093	mg/Kg	1	7/4/2020 12:45:54 PM	53454	
Surr: 4-Bromofluorobenzene	104	80-120	%Rec	1	7/4/2020 12:45:54 PM	53454	

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy		Cl	ient Sample II	D: W	S20-03 0-1		
Project: Red Bull 31 State 1		(Collection Dat	e: 6/2	29/2020 1:00:00 PM		
Lab ID: 2007006-025	Matrix: SOIL Received Date: 7/1/2020 9:20:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst:	CAS	
Chloride	96	60	mg/Kg	20	7/7/2020 9:23:44 PM	53548	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	BRM	
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	7/5/2020 10:24:51 AM	53480	
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/5/2020 10:24:51 AM	53480	
Surr: DNOP	67.0	55.1-146	%Rec	1	7/5/2020 10:24:51 AM	53480	
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst:	RAA	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/4/2020 1:09:30 PM	53454	
Surr: BFB	95.5	66.6-105	%Rec	1	7/4/2020 1:09:30 PM	53454	
EPA METHOD 8021B: VOLATILES					Analyst:	RAA	
Benzene	ND	0.025	mg/Kg	1	7/4/2020 1:09:30 PM	53454	
Toluene	ND	0.049	mg/Kg	1	7/4/2020 1:09:30 PM	53454	
Ethylbenzene	ND	0.049	mg/Kg	1	7/4/2020 1:09:30 PM	53454	
Xylenes, Total	ND	0.098	mg/Kg	1	7/4/2020 1:09:30 PM	53454	
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	7/4/2020 1:09:30 PM	53454	

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT:	Devon Energy		Cl	lient Sa	ample II	D: WS	\$20-04 0-1	
Project:	Red Bull 31 State 1		(Collect	ion Dat	e: 6/2	29/2020 1:10:00 PM	
Lab ID:	2007006-026	Matrix: SOIL Received Date: 7/1/2020 9:20:00 AM						
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS						Analyst:	CAS
Chloride		270	61		mg/Kg	20	7/7/2020 9:36:04 PM	53548
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst:	BRM
Diesel Ra	ange Organics (DRO)	ND	9.5		mg/Kg	1	7/5/2020 10:49:18 AM	53480
Motor Oil	I Range Organics (MRO)	ND	48		mg/Kg	1	7/5/2020 10:49:18 AM	53480
Surr: E	DNOP	76.8	55.1-146		%Rec	1	7/5/2020 10:49:18 AM	53480
EPA MET	HOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline	Range Organics (GRO)	ND	4.8		mg/Kg	1	7/4/2020 2:20:24 PM	53454
Surr: E	3FB	96.8	66.6-105		%Rec	1	7/4/2020 2:20:24 PM	53454
EPA MET	HOD 8021B: VOLATILES						Analyst:	RAA
Benzene		ND	0.024		mg/Kg	1	7/4/2020 2:20:24 PM	53454
Toluene		ND	0.048		mg/Kg	1	7/4/2020 2:20:24 PM	53454
Ethylben	zene	ND	0.048		mg/Kg	1	7/4/2020 2:20:24 PM	53454
Xylenes,	Total	ND	0.095		mg/Kg	1	7/4/2020 2:20:24 PM	53454
Surr: 4	1-Bromofluorobenzene	105	80-120		%Rec	1	7/4/2020 2:20:24 PM	53454

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
 - Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy		Cl	ient Sam	ple II): WS	\$20-05 0-1	
Project: Red Bull 31 State 1		(Collection	n Date	e: 6/2	29/2020 1:20:00 PM	
Lab ID: 2007006-027	Matrix: SOIL Received Date: 7/1/2020 9:20:00						
Analyses	Result	RL	Qual U	nits	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	CAS
Chloride	280	60	m	ng/Kg	20	7/7/2020 9:48:25 PM	53548
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst:	BRM
Diesel Range Organics (DRO)	ND	10	m	ng/Kg	1	7/5/2020 11:13:34 AM	53480
Motor Oil Range Organics (MRO)	ND	50	m	ng/Kg	1	7/5/2020 11:13:34 AM	53480
Surr: DNOP	73.8	55.1-146	%	6Rec	1	7/5/2020 11:13:34 AM	53480
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	RAA
Gasoline Range Organics (GRO)	ND	4.9	m	ng/Kg	1	7/4/2020 2:44:05 PM	53454
Surr: BFB	96.1	66.6-105	%	6Rec	1	7/4/2020 2:44:05 PM	53454
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.025	m	ng/Kg	1	7/4/2020 2:44:05 PM	53454
Toluene	ND	0.049	m	ng/Kg	1	7/4/2020 2:44:05 PM	53454
Ethylbenzene	ND	0.049	m	ng/Kg	1	7/4/2020 2:44:05 PM	53454
Xylenes, Total	ND	0.098	m	ng/Kg	1	7/4/2020 2:44:05 PM	53454
Surr: 4-Bromofluorobenzene	104	80-120	%	6Rec	1	7/4/2020 2:44:05 PM	53454

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

	Devon Energy	Client Sample ID: WS20-06 0-1						
Project:	Red Bull 31 State 1			Collection Dat	e: 6/2	29/2020 1:30:00 PM		
Lab ID:	2007006-028	Matrix: SOIL Received Date: 7/1/2020 9:20:00 AM						
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch	
ΕΡΑ ΜΕΤ	HOD 300.0: ANIONS					Analyst	CAS	
Chloride		150	60	mg/Kg	20	7/7/2020 10:25:26 PM	53548	
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM	
Diesel R	ange Organics (DRO)	ND	9.6	mg/Kg	1	7/5/2020 11:37:59 AM	53480	
Motor Oi	I Range Organics (MRO)	ND	48	mg/Kg	1	7/5/2020 11:37:59 AM	53480	
Surr: [ONOP	75.6	55.1-146	%Rec	1	7/5/2020 11:37:59 AM	53480	
EPA MET	HOD 8015D: GASOLINE RANGE					Analyst	RAA	
Gasoline	Range Organics (GRO)	ND	4.6	mg/Kg	1	7/4/2020 3:07:47 PM	53454	
Surr: E	3FB	94.5	66.6-105	%Rec	1	7/4/2020 3:07:47 PM	53454	
EPA MET	HOD 8021B: VOLATILES					Analyst	RAA	
Benzene		ND	0.023	mg/Kg	1	7/4/2020 3:07:47 PM	53454	
Toluene		ND	0.046	mg/Kg	1	7/4/2020 3:07:47 PM	53454	
Ethylben	zene	ND	0.046	mg/Kg	1	7/4/2020 3:07:47 PM	53454	
Xylenes,	Total	ND	0.093	mg/Kg	1	7/4/2020 3:07:47 PM	53454	
Surr: 4	1-Bromofluorobenzene	103	80-120	%Rec	1	7/4/2020 3:07:47 PM	53454	

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy		Cl	ient Sample II	D: W	S20-07 0-1		
Project: Red Bull 31 State 1	Collection Date: 6/29/2020 1:40:00 PM						
Lab ID: 2007006-029	Matrix: SOIL Received Date: 7/1/2020 9:20:00 A						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst:	CAS	
Chloride	210	60	mg/Kg	20	7/7/2020 10:37:47 PM	53548	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	BRM	
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/5/2020 12:02:20 PM	53480	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/5/2020 12:02:20 PM	53480	
Surr: DNOP	59.9	55.1-146	%Rec	1	7/5/2020 12:02:20 PM	53480	
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	RAA	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/4/2020 3:31:29 PM	53454	
Surr: BFB	97.8	66.6-105	%Rec	1	7/4/2020 3:31:29 PM	53454	
EPA METHOD 8021B: VOLATILES					Analyst	RAA	
Benzene	ND	0.024	mg/Kg	1	7/4/2020 3:31:29 PM	53454	
Toluene	ND	0.047	mg/Kg	1	7/4/2020 3:31:29 PM	53454	
Ethylbenzene	ND	0.047	mg/Kg	1	7/4/2020 3:31:29 PM	53454	
Xylenes, Total	ND	0.094	mg/Kg	1	7/4/2020 3:31:29 PM	53454	
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	7/4/2020 3:31:29 PM	53454	

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT:	Devon Energy	Client Sample ID: WS20-08 0-1						
Project:	Red Bull 31 State 1		(Collection	Date	:6/2	29/2020 1:50:00 PM	
Lab ID:	2007006-030	Matrix: SOIL Received Date: 7/1/2020 9:20:00 AM						
Analyses		Result	RL	Qual Ur	nits	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS						Analyst	CAS
Chloride		250	60	m	g/Kg	20	7/7/2020 10:50:08 PM	53548
EPA MET	THOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	BRM
Diesel R	ange Organics (DRO)	ND	9.3	m	g/Kg	1	7/5/2020 12:51:03 PM	53480
Motor Oi	il Range Organics (MRO)	ND	47	m	g/Kg	1	7/5/2020 12:51:03 PM	53480
Surr: I	DNOP	79.1	55.1-146	%	Rec	1	7/5/2020 12:51:03 PM	53480
EPA MET	THOD 8015D: GASOLINE RANGE	E					Analyst	RAA
Gasoline	e Range Organics (GRO)	ND	4.7	mg	g/Kg	1	7/4/2020 3:55:15 PM	53454
Surr: I	BFB	95.5	66.6-105	%	Rec	1	7/4/2020 3:55:15 PM	53454
EPA MET	THOD 8021B: VOLATILES						Analyst	RAA
Benzene	9	ND	0.023	mg	g/Kg	1	7/4/2020 3:55:15 PM	53454
Toluene		ND	0.047	mį	g/Kg	1	7/4/2020 3:55:15 PM	53454
Ethylben	izene	ND	0.047	m	g/Kg	1	7/4/2020 3:55:15 PM	53454
Xylenes,	, Total	ND	0.094	m	g/Kg	1	7/4/2020 3:55:15 PM	53454
Surr: 4	4-Bromofluorobenzene	103	80-120	%	Rec	1	7/4/2020 3:55:15 PM	53454

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy	Client Sample ID: WS20-09 0-1 Collection Date: 6/29/2020 2:00:00 PM					
Project: Red Bull 31 State 1						
Lab ID: 2007006-031	Matrix: SOIL		Received Da	te: 7 /1	/2020 9:20:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	160	60	mg/Kg	20	7/7/2020 11:02:28 PM	53548
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/5/2020 1:15:26 PM	53480
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/5/2020 1:15:26 PM	53480
Surr: DNOP	73.0	55.1-146	%Rec	1	7/5/2020 1:15:26 PM	53480
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/4/2020 4:18:55 PM	53454
Surr: BFB	97.4	66.6-105	%Rec	1	7/4/2020 4:18:55 PM	53454
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.023	mg/Kg	1	7/4/2020 4:18:55 PM	53454
Toluene	ND	0.047	mg/Kg	1	7/4/2020 4:18:55 PM	53454
Ethylbenzene	ND	0.047	mg/Kg	1	7/4/2020 4:18:55 PM	53454
Xylenes, Total	ND	0.093	mg/Kg	1	7/4/2020 4:18:55 PM	53454
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	7/4/2020 4:18:55 PM	53454

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL
 - Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy	Client Sample ID: WS20-10 0-1					
Project: Red Bull 31 State 1	Collection Date: 6/29/2020 2:10:00 PM					
Lab ID: 2007006-032	Matrix: SOILReceived Date: 7/1/2020 9:20:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	CAS
Chloride	270	60	mg/Kg	20	7/7/2020 11:14:47 PM	53548
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	7/5/2020 1:39:51 PM	53480
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/5/2020 1:39:51 PM	53480
Surr: DNOP	79.9	55.1-146	%Rec	1	7/5/2020 1:39:51 PM	53480
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/4/2020 4:42:37 PM	53454
Surr: BFB	97.8	66.6-105	%Rec	1	7/4/2020 4:42:37 PM	53454
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.024	mg/Kg	1	7/4/2020 4:42:37 PM	53454
Toluene	ND	0.048	mg/Kg	1	7/4/2020 4:42:37 PM	53454
Ethylbenzene	ND	0.048	mg/Kg	1	7/4/2020 4:42:37 PM	53454
Xylenes, Total	ND	0.097	mg/Kg	1	7/4/2020 4:42:37 PM	53454
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	7/4/2020 4:42:37 PM	53454

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy	Client Sample ID: WS20-11 0-1 Collection Date: 6/29/2020 2:20:00 PM					
Project: Red Bull 31 State 1						
Lab ID: 2007006-033	Matrix: SOIL Received Date: 7/1/2020 9:20:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	CAS
Chloride	180	60	mg/Kg	20	7/7/2020 11:27:08 PM	53548
EPA METHOD 8015M/D: DIESEL RANGE	EORGANICS				Analys	BRM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	7/5/2020 2:04:17 PM	53480
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/5/2020 2:04:17 PM	53480
Surr: DNOP	76.2	55.1-146	%Rec	1	7/5/2020 2:04:17 PM	53480
EPA METHOD 8015D: GASOLINE RANG	E				Analys	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/4/2020 5:30:03 PM	53454
Surr: BFB	97.9	66.6-105	%Rec	1	7/4/2020 5:30:03 PM	53454
EPA METHOD 8021B: VOLATILES					Analys	RAA
Benzene	ND	0.024	mg/Kg	1	7/4/2020 5:30:03 PM	53454
Toluene	ND	0.048	mg/Kg	1	7/4/2020 5:30:03 PM	53454
Ethylbenzene	ND	0.048	mg/Kg	1	7/4/2020 5:30:03 PM	53454
Xylenes, Total	ND	0.096	mg/Kg	1	7/4/2020 5:30:03 PM	53454
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	7/4/2020 5:30:03 PM	53454

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy	Client Sample ID: WS20-12 0-1					
Project: Red Bull 31 State 1	Collection Date: 6/29/2020 2:30:00 PM					
Lab ID: 2007006-034	Matrix: SOIL Received Date: 7/1/2020 9:20:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	80	60	mg/Kg	20	7/8/2020 12:55:19 PM	53568
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	7/5/2020 2:28:29 PM	53480
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	7/5/2020 2:28:29 PM	53480
Surr: DNOP	68.4	55.1-146	%Rec	1	7/5/2020 2:28:29 PM	53480
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/4/2020 5:53:46 PM	53454
Surr: BFB	98.1	66.6-105	%Rec	1	7/4/2020 5:53:46 PM	53454
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.025	mg/Kg	1	7/4/2020 5:53:46 PM	53454
Toluene	ND	0.049	mg/Kg	1	7/4/2020 5:53:46 PM	53454
Ethylbenzene	ND	0.049	mg/Kg	1	7/4/2020 5:53:46 PM	53454
Xylenes, Total	ND	0.098	mg/Kg	1	7/4/2020 5:53:46 PM	53454
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	7/4/2020 5:53:46 PM	53454

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy	Client Sample ID: WS20-13 0-1									
Project: Red Bull 31 State 1	Collection Date: 6/29/2020 2:40:00 PM									
Lab ID: 2007006-035	Matrix: SOIL	Received Date: 7/1/2020 9:20:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst:	MRA				
Chloride	360	61	mg/Kg	20	7/8/2020 1:32:21 PM	53568				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	BRM				
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/5/2020 2:52:59 PM	53480				
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/5/2020 2:52:59 PM	53480				
Surr: DNOP	72.4	55.1-146	%Rec	1	7/5/2020 2:52:59 PM	53480				
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	RAA				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/4/2020 6:17:26 PM	53454				
Surr: BFB	97.7	66.6-105	%Rec	1	7/4/2020 6:17:26 PM	53454				
EPA METHOD 8021B: VOLATILES					Analyst	RAA				
Benzene	ND	0.024	mg/Kg	1	7/4/2020 6:17:26 PM	53454				
Toluene	ND	0.048	mg/Kg	1	7/4/2020 6:17:26 PM	53454				
Ethylbenzene	ND	0.048	mg/Kg	1	7/4/2020 6:17:26 PM	53454				
Xylenes, Total	ND	0.096	mg/Kg	1	7/4/2020 6:17:26 PM	53454				
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	7/4/2020 6:17:26 PM	53454				

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2007006

Date Reported: 7/9/2020

CLIENT:	Devon Energy		Cl	ient Sample	ID: W	/S20-14 0-1	
Project:	Red Bull 31 State 1			Collection D	ate: 6/	29/2020 2:50:00 PM	
Lab ID:	2007006-036	Matrix: SOIL		Received D	ate: 7/	1/2020 9:20:00 AM	
Analyses		Result	RL	Qual Unit	s DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analys	t: MRA
Chloride		190	60	mg/k	g 20	7/8/2020 1:44:42 PM	53568
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: BRM
Diesel R	ange Organics (DRO)	ND	10	mg/k	g 1	7/5/2020 3:17:28 PM	53480
Motor Oi	I Range Organics (MRO)	ND	50	mg/K	g 1	7/5/2020 3:17:28 PM	53480
Surr: [DNOP	60.1	55.1-146	%Re	c 1	7/5/2020 3:17:28 PM	53480
ΕΡΑ ΜΕΤ	HOD 8015D: GASOLINE RANGE					Analys	t: RAA
Gasoline	Range Organics (GRO)	ND	4.7	mg/K	g 1	7/4/2020 6:41:09 PM	53454
Surr: E	3FB	97.7	66.6-105	%Re	c 1	7/4/2020 6:41:09 PM	53454
EPA MET	HOD 8021B: VOLATILES					Analys	t: RAA
Benzene		ND	0.024	mg/K	g 1	7/4/2020 6:41:09 PM	53454
Toluene		ND	0.047	mg/K	g 1	7/4/2020 6:41:09 PM	53454
Ethylben	zene	ND	0.047	mg/K	g 1	7/4/2020 6:41:09 PM	53454
Xylenes,	Total	ND	0.095	mg/K	g 1	7/4/2020 6:41:09 PM	53454
Surr: 4	1-Bromofluorobenzene	105	80-120	%Re	c 1	7/4/2020 6:41:09 PM	53454

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT:	Devon Energy		Cl	ient Sam	ple II): WS	\$20-15 0-1	
Project:	Red Bull 31 State 1		(Collection	n Date	e: 6/2	9/2020 3:00:00 PM	
Lab ID:	2007006-037	Matrix: SOIL		Receive	d Date	e: 7/1	/2020 9:20:00 AM	
Analyses		Result	RL	Qual U	nits	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS						Analys	t: MRA
Chloride		89	60	rr	ng/Kg	20	7/8/2020 1:57:02 PM	53568
EPA MET	THOD 8015M/D: DIESEL RANGE	ORGANICS					Analys	t: BRM
Diesel R	ange Organics (DRO)	ND	9.7	m	ng/Kg	1	7/5/2020 3:41:52 PM	53480
Motor Oi	il Range Organics (MRO)	ND	48	rr	ng/Kg	1	7/5/2020 3:41:52 PM	53480
Surr: I	DNOP	56.2	55.1-146	%	6Rec	1	7/5/2020 3:41:52 PM	53480
EPA MET	THOD 8015D: GASOLINE RANGE						Analys	t: RAA
Gasoline	e Range Organics (GRO)	ND	4.6	rr	ng/Kg	1	7/4/2020 7:04:47 PM	53454
Surr: I	BFB	99.8	66.6-105	%	6Rec	1	7/4/2020 7:04:47 PM	53454
EPA MET	THOD 8021B: VOLATILES						Analys	t: RAA
Benzene	9	ND	0.023	rr	ng/Kg	1	7/4/2020 7:04:47 PM	53454
Toluene		ND	0.046	rr	ng/Kg	1	7/4/2020 7:04:47 PM	53454
Ethylben	izene	ND	0.046	rr	ng/Kg	1	7/4/2020 7:04:47 PM	53454
Xylenes,	Total	ND	0.093	m	ng/Kg	1	7/4/2020 7:04:47 PM	53454
Surr: 4	4-Bromofluorobenzene	108	80-120	%	6Rec	1	7/4/2020 7:04:47 PM	53454

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy		C	ient Sample I	D: W	S20-16 0-1					
Project: Red Bull 31 State 1	Collection Date: 6/29/2020 3:10:00 PM									
Lab ID: 2007006-038	Matrix: SOIL	Received Date: 7/1/2020 9:20:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst:	MRA				
Chloride	210	60	mg/Kg	20	7/8/2020 2:09:23 PM	53568				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:	BRM				
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/5/2020 4:06:11 PM	53480				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/5/2020 4:06:11 PM	53480				
Surr: DNOP	58.8	55.1-146	%Rec	1	7/5/2020 4:06:11 PM	53480				
EPA METHOD 8015D: GASOLINE RANGE	I				Analyst:	RAA				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/4/2020 7:28:28 PM	53454				
Surr: BFB	98.7	66.6-105	%Rec	1	7/4/2020 7:28:28 PM	53454				
EPA METHOD 8021B: VOLATILES					Analyst:	RAA				
Benzene	ND	0.024	mg/Kg	1	7/4/2020 7:28:28 PM	53454				
Toluene	ND	0.048	mg/Kg	1	7/4/2020 7:28:28 PM	53454				
Ethylbenzene	ND	0.048	mg/Kg	1	7/4/2020 7:28:28 PM	53454				
Xylenes, Total	ND	0.096	mg/Kg	1	7/4/2020 7:28:28 PM	53454				
Surr: 4-Bromofluorobenzene	106	80-120	%Rec	1	7/4/2020 7:28:28 PM	53454				

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy		Cl	ient Sa	ample II	D: WS	S20-17 0-1	
Project: Red Bull 31 State 1		(Collect	tion Dat	e: 6/2	29/2020 3:20:00 PM	
Lab ID: 2007006-039	Matrix: SOIL		Recei	ved Dat	e: 7/1	/2020 9:20:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: MRA
Chloride	98	60		mg/Kg	20	7/8/2020 2:21:45 PM	53568
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analys	t: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	7/5/2020 4:30:45 PM	53480
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	7/5/2020 4:30:45 PM	53480
Surr: DNOP	50.5	55.1-146	S	%Rec	1	7/5/2020 4:30:45 PM	53480
EPA METHOD 8015D: GASOLINE RANGE	E					Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/4/2020 7:52:08 PM	53454
Surr: BFB	97.9	66.6-105		%Rec	1	7/4/2020 7:52:08 PM	53454
EPA METHOD 8021B: VOLATILES						Analys	t: RAA
Benzene	ND	0.024		mg/Kg	1	7/4/2020 7:52:08 PM	53454
Toluene	ND	0.048		mg/Kg	1	7/4/2020 7:52:08 PM	53454
Ethylbenzene	ND	0.048		mg/Kg	1	7/4/2020 7:52:08 PM	53454
Xylenes, Total	ND	0.095		mg/Kg	1	7/4/2020 7:52:08 PM	53454
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	7/4/2020 7:52:08 PM	53454

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2007006

Date Reported: 7/9/2020

CLIENT:	Devon Energy		Cl	ient Sample II	D: W	\$20-18 0-1	
Project:	Red Bull 31 State 1		(Collection Dat	e: 6/2	29/2020 3:30:00 PM	
Lab ID:	2007006-040	Matrix: SOIL		Received Dat	e: 7/1	/2020 9:20:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
ΕΡΑ ΜΕΊ	THOD 300.0: ANIONS					Analys	t: MRA
Chloride		230	60	mg/Kg	20	7/8/2020 2:58:48 PM	53568
EPA MET	HOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: BRM
Diesel R	ange Organics (DRO)	ND	9.5	mg/Kg	1	7/5/2020 4:55:07 PM	53480
Motor Oi	I Range Organics (MRO)	ND	47	mg/Kg	1	7/5/2020 4:55:07 PM	53480
Surr: I	DNOP	56.6	55.1-146	%Rec	1	7/5/2020 4:55:07 PM	53480
EPA MET	HOD 8015D: GASOLINE RANGE					Analys	t: RAA
Gasoline	Range Organics (GRO)	ND	4.9	mg/Kg	1	7/4/2020 8:15:40 PM	53454
Surr: I	BFB	95.8	66.6-105	%Rec	1	7/4/2020 8:15:40 PM	53454
EPA MET	THOD 8021B: VOLATILES					Analys	t: RAA
Benzene		ND	0.024	mg/Kg	1	7/4/2020 8:15:40 PM	53454
Toluene		ND	0.049	mg/Kg	1	7/4/2020 8:15:40 PM	53454
Ethylben	izene	ND	0.049	mg/Kg	1	7/4/2020 8:15:40 PM	53454
Xylenes,	Total	ND	0.098	mg/Kg	1	7/4/2020 8:15:40 PM	53454
Surr: 4	4-Bromofluorobenzene	104	80-120	%Rec	1	7/4/2020 8:15:40 PM	53454

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL
 - Reporting Limit

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Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy		Cli	ient Sample II	D: W	S20-19 0-1	
Project: Red Bull 31 State 1		(Collection Dat	e: 6/2	29/2020 3:40:00 PM	
Lab ID: 2007006-041	Matrix: SOIL		1/2020 9:20:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	140	59	mg/Kg	20	7/8/2020 3:11:09 PM	53568
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	DJF
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/4/2020 12:17:43 PM	53481
Surr: BFB	96.8	70-130	%Rec	1	7/4/2020 12:17:43 PM	53481
EPA METHOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst	BRM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/4/2020 5:20:16 PM	53484
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	7/4/2020 5:20:16 PM	53484
Surr: DNOP	85.2	55.1-146	%Rec	1	7/4/2020 5:20:16 PM	53484
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	DJF
Benzene	ND	0.023	mg/Kg	1	7/4/2020 12:17:43 PM	53481
Toluene	ND	0.047	mg/Kg	1	7/4/2020 12:17:43 PM	53481
Ethylbenzene	ND	0.047	mg/Kg	1	7/4/2020 12:17:43 PM	53481
Xylenes, Total	ND	0.094	mg/Kg	1	7/4/2020 12:17:43 PM	53481
Surr: 1,2-Dichloroethane-d4	102	70-130	%Rec	1	7/4/2020 12:17:43 PM	53481
Surr: 4-Bromofluorobenzene	87.1	70-130	%Rec	1	7/4/2020 12:17:43 PM	53481
Surr: Dibromofluoromethane	99.9	70-130	%Rec	1	7/4/2020 12:17:43 PM	53481
Surr: Toluene-d8	98.0	70-130	%Rec	1	7/4/2020 12:17:43 PM	53481

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

	Devon Energy Red Bull 31 State 1			ient Sample II Collection Dat		S20-20 0-1 29/2020 3:50:00 PM	
	2007006-042	Matrix: SOIL				/2020 9:20:00 AM	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METH	HOD 300.0: ANIONS					Analys	t: MRA
Chloride		220	60	mg/Kg	20	7/8/2020 3:23:29 PM	53568
EPA METH	HOD 8015D MOD: GASOL	INE RANGE				Analys	t: DJF
Gasoline I	Range Organics (GRO)	ND	4.8	mg/Kg	1	7/4/2020 1:47:14 PM	53481
Surr: Bl	FB	100	70-130	%Rec	1	7/4/2020 1:47:14 PM	53481
EPA METH	HOD 8015M/D: DIESEL RA	NGE ORGANICS				Analys	t: BRM
Diesel Ra	nge Organics (DRO)	ND	9.8	mg/Kg	1	7/4/2020 5:44:42 PM	53484
Motor Oil	Range Organics (MRO)	ND	49	mg/Kg	1	7/4/2020 5:44:42 PM	53484
Surr: DI	NOP	59.8	55.1-146	%Rec	1	7/4/2020 5:44:42 PM	53484
EPA METH	HOD 8260B: VOLATILES	SHORT LIST				Analys	t: DJF
Benzene		ND	0.024	mg/Kg	1	7/4/2020 1:47:14 PM	53481
Toluene		ND	0.048	mg/Kg	1	7/4/2020 1:47:14 PM	53481
Ethylbenz	ene	ND	0.048	mg/Kg	1	7/4/2020 1:47:14 PM	53481
Xylenes, T	Total	ND	0.096	mg/Kg	1	7/4/2020 1:47:14 PM	53481
Surr: 1,	2-Dichloroethane-d4	99.1	70-130	%Rec	1	7/4/2020 1:47:14 PM	53481
Surr: 4-	Bromofluorobenzene	91.2	70-130	%Rec	1	7/4/2020 1:47:14 PM	53481
Surr: Di	ibromofluoromethane	98.2	70-130	%Rec	1	7/4/2020 1:47:14 PM	53481
Surr: To	oluene-d8	100	70-130	%Rec	1	7/4/2020 1:47:14 PM	53481

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2007006

Date Reported: 7/9/2020

CLIENT: Devon Energy Project: Red Bull 31 State 1			ient Sample II Collection Dat		S20-21 0-1 29/2020 4:00:00 PM	
Lab ID: 2007006-043	Matrix: SOIL		Received Dat	e: 7/1	/2020 9:20:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	t: MRA
Chloride	300	60	mg/Kg	20	7/8/2020 3:35:49 PM	53568
EPA METHOD 8015D MOD: GASOLINE R	ANGE				Analyst	t: DJF
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/4/2020 3:17:08 PM	53481
Surr: BFB	99.0	70-130	%Rec	1	7/4/2020 3:17:08 PM	53481
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	t: BRM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	7/4/2020 6:09:03 PM	53484
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	7/4/2020 6:09:03 PM	53484
Surr: DNOP	70.6	55.1-146	%Rec	1	7/4/2020 6:09:03 PM	53484
EPA METHOD 8260B: VOLATILES SHOR	T LIST				Analyst	t: DJF
Benzene	ND	0.025	mg/Kg	1	7/4/2020 3:17:08 PM	53481
Toluene	ND	0.049	mg/Kg	1	7/4/2020 3:17:08 PM	53481
Ethylbenzene	ND	0.049	mg/Kg	1	7/4/2020 3:17:08 PM	53481
Xylenes, Total	ND	0.098	mg/Kg	1	7/4/2020 3:17:08 PM	53481
Surr: 1,2-Dichloroethane-d4	99.8	70-130	%Rec	1	7/4/2020 3:17:08 PM	53481
Surr: 4-Bromofluorobenzene	86.9	70-130	%Rec	1	7/4/2020 3:17:08 PM	53481
Surr: Dibromofluoromethane	98.1	70-130	%Rec	1	7/4/2020 3:17:08 PM	53481
Surr: Toluene-d8	101	70-130	%Rec	1	7/4/2020 3:17:08 PM	53481

Refer to the QC Summary 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT Η

Result

PQL

QC SUN Hall Envi		Y KEPU Ital Analy		Laborat	ory, Inc.					WO#:	2007006 09-Jul-20
Client: Project:		Energy ull 31 State 1									
Sample ID: MI		SampTy	/pe: m l	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: PE			ID: 53		F	RunNo: 7	0170				
Prep Date: 7	/7/2020	Analysis Da	ate: 7/	7/2020	S	SeqNo: 2	438355	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5					-			
Sample ID: LC	S-53538	SampTy	/pe: Ics	5	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: LC	SS	Batch	ID: 53	538	F	RunNo: 7	0170				
Prep Date: 7	/7/2020	Analysis Da	ate: 7/	7/2020	S	SeqNo: 2	438356	Units: mg/K	(g		
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: M	B-53548	SampTy	/pe: ml	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: PE	BS	Batch	ID: 53	548	F	RunNo: 7	0175				
Prep Date: 7	/7/2020	Analysis Da	ate: 7/	7/2020	5	SeqNo: 2	438415	Units: mg/K	(g		

Analysis Date: 7/7/2020	SeqNo: 2438415	Units: mg/Kg
Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
ND 1.5		
SampType: Ics	TestCode: EPA Method	300.0: Anions
Batch ID: 53548	Durables 70475	
Balch ID. 33340	RunNo: 70175	
-	Result PQL SPK value ND 1.5 SampType: Ics	Result PQL SPK value SPK Ref Val REC LowLimit ND 1.5 SampType: Ics TestCode: EPA Method

LowLimit

HighLimit

%RPD

RPDLimit

Qual

SPK value SPK Ref Val %REC

Chloride	15	1.5	15.00	0	97.5	90	110			
Sample ID: MB-53568	SampTyp	pe: mb	olk	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: PBS	Batch I	D: 53	568	F	RunNo: 7(0202				
Prep Date: 7/8/2020	Analysis Dat	te: 7/ 3	8/2020	S	SeqNo: 24	439470	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								
Sample ID: LCS-53568	SampTyp	be: Ics		Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID: LCSS	Batch I	D: 53	568	F	RunNo: 7(0202				
Prep Date: 7/8/2020	Analysis Dat	te: 7/ 3	8/2020	5	SeqNo: 24	439471	Units: mg/K	g		
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:

Analyte

- 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
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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2007006

WO#:

Hall Environment	al Analy	ysis I	Laborat	ory, Inc.						09-Jul-20
Client: Devon H Project: Red Bul	Energy Il 31 State 1									
Sample ID: MB-53455	SampT	ype: MI	3LK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 53	455	F	RunNo: 7	0071				
Prep Date: 7/1/2020	Analysis D	ate: 7/	2/2020	S	SeqNo: 2	434216	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.0	55.1	146			
Sample ID: LCS-53455	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 53	455	F	RunNo: 7	0071				
Prep Date: 7/1/2020	Analysis D	ate: 7/	2/2020	S	SeqNo: 2	434220	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	70	130			
Surr: DNOP	4.6		5.000		92.7	55.1	146			
Sample ID: 2007006-001AM	S SampT	ype: MS	6	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: BS20-01 1'	Batch	n ID: 53	455	F	RunNo: 7	0101				
Prep Date: 7/1/2020	Analysis D	ate: 7/	4/2020	S	SeqNo: 2	435819	Units: mg/#	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.3	46.69	8.325	68.1	47.4	136			
Surr: DNOP	3.9		4.669		83.8	55.1	146			
Sample ID: 2007006-001AM	SD SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: BS20-01 1'	Batch	n ID: 53	455	F	RunNo: 7	0101				
Prep Date: 7/1/2020	Analysis D	ate: 7/	4/2020	S	SeqNo: 2	435820	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.8	48.92	8.325	67.8	47.4	136	3.38	43.4	
Surr: DNOP	4.1		4.892		83.7	55.1	146	0	0	
Sample ID: 2007006-021AM	S SampT	уре: М	3	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: BS20-21 1'	Batch	n ID: 53	480	F	RunNo: 7	0104				
Prep Date: 7/2/2020	Analysis D	ate: 7/	5/2020	S	SeqNo: 2	436145	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	9.6	47.94	4.069	91.6	47.4	136			
0 01100										

Qualifiers:

Surr: DNOP

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

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

79.1

55.1

146

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

4.794

.

PQL

10

50

10.00

Result

ND

ND

8.3

Hall Environment	tal Analy	ysis L	Laborat	ory, Inc.						09-Jul-20
Client: Devon l Project: Red Bu	Energy 11 31 State 1									
Sample ID: 2007006-021AM	SD SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: BS20-21 1'	Batch	n ID: 534	480	R	lunNo: 7	0104				
Prep Date: 7/2/2020	Analysis D	ate: 7/	5/2020	S	eqNo: 24	436146	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	9.9	49.60	4.069	96.7	47.4	136	8.03	43.4	
Surr: DNOP	2.6		4.960		53.2	55.1	146	0	0	S
Sample ID: LCS-53484	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 53	484	R	unNo: 7	0104				
Prep Date: 7/2/2020	Analysis D	ate: 7/	4/2020	S	eqNo: 24	436177	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	70	130			
Surr: DNOP	5.1		5.000		103	55.1	146			
Sample ID: MB-53480	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	1D: 53	480	R	lunNo: 7	0104				
Prep Date: 7/2/2020	Analysis D	ate: 7/	5/2020	S	eqNo: 24	436179	Units: mg/k	٢g		

Sample ID: MB-53484	SampT	ype: ME	BLK	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	n ID: 53	484	F	RunNo: 70104						
Prep Date: 7/2/2020	Analysis D	ate: 7/	4/2020	S	SeqNo: 24	436180	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									
Surr: DNOP	9.8		10.00		97.6	55.1	146				
Surr: DNOP Sample ID: LCS-53480		ype: LC		Tes			146 8015M/D: Die	esel Range	e Organics		
	SampT	ype: LC	S			PA Method	-	esel Range	e Organics		
Sample ID: LCS-53480	SampT	n ID: 53	:S 480	F	tCode: EF	PA Method	-	U	e Organics		
Sample ID: LCS-53480 Client ID: LCSS	SampT Batch	n ID: 53	S 480 5/2020	F	tCode: EF	PA Method	8015M/D: Die	U	• Organics	Qual	
Sample ID: LCS-53480 Client ID: LCSS Prep Date: 7/2/2020	SampT Batch Analysis D	n ID: 53 Pate: 7/	S 480 5/2020	א פ	tCode: EF RunNo: 70 SeqNo: 24	PA Method 0104 436187	8015M/D: Die Units: mg/K	g	U	Qual	

SPK value SPK Ref Val %REC LowLimit

83.1

55.1

Qualifiers:

Analyte

Surr: DNOP

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

- 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 ND
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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%RPD

HighLimit

146

RPDLimit

Qual

Client: Project:		n Energy Bull 31 State 1									
Sample ID: MB		·	ype: M I			tCode: El		8015M/D: Die	esel Range	e Organics	
	6/2020	Analysis D				SeqNo: 2		Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		12		10.00		119	55.1	146			
Sample ID: LC	S-53520	SampT	ype: LC	cs	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LC:	SS	Batch	n ID: 53	520	F	RunNo: 7	0110				
Prep Date: 7/	6/2020	Analysis D	ate: 7	/7/2020	S	SeqNo: 24	437863	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.9		5.000		119	55.1	146			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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2007006

09-Jul-20

Devon Energy

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Project: Red Bull	31 State 1									
Sample ID: 2007006-002ams	SampT	уре: МS	;	Test	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID: BS20-02 1'	Batcl	n ID: 534	450	R	lunNo: 7 0	0103				
Prep Date: 7/1/2020	Analysis D	Date: 7/	3/2020	S	eqNo: 24	436007	Units: mg/#	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	21 1100	5.0	24.83 993.0	0	85.3 106	80 66.6	120 105			S
Sample ID: 2007006-002amsc		ype: MS		Test	tCode: F		8015D: Gaso	line Rang	e	
Client ID: BS20-02 1'		n ID: 534			lunNo: 70		001021 0000	into ritarig	•	
Prep Date: 7/1/2020	Analysis D				SeqNo: 24		Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	24.88	0	84.8	80	120	0.365	20	444
Surr: BFB	1100		995.0		107	66.6	105	0	0	S
Sample ID: 2007006-022ams	SampT	уре: МS	5	Test	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID: BS20-22 1'	Batcl	n ID: 534	454	R	lunNo: 7(0103				
Prep Date: 7/1/2020	Analysis E	Date: 7/	4/2020	S	eqNo: 24	436029	Units: mg/#	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.8	23.95	0	84.9	80	120			
Surr: BFB	980		957.9		103	66.6	105			
Sample ID: 2007006-022amsd	I Samp1	уре: МS	D	Test	tCode: EF	PA Method	8015D: Gasc	line Rang	e	
Client ID: BS20-22 1'	Batcl	n ID: 534	454	R	tunNo: 7(0103				
Prep Date: 7/1/2020	Analysis D	oate: 7/	4/2020	S	eqNo: 24	436030	Units: mg/k	(g		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.7	23.74	0	80.4	80	120	6.23	20	
Surr: BFB	980		949.7		104	66.6	105	0	0	
Sample ID: Ics-53450	SampT	ype: LC	S	Test	tCode: EF	PA Method	8015D: Gasc	line Rang	е	
Client ID: LCSS	Batcl	n ID: 534	450	R	lunNo: 70	0103				
Prep Date: 7/1/2020	Analysis E	Date: 7/	3/2020	S	SeqNo: 24	436049	Units: mg/H	(g		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	22 1100	5.0	25.00 1000	0	88.8 110	80 66.6	120 105			S
										0
Sample ID: Ics-53454		ype: LC					8015D: Gasc	line Rang	e	
Client ID: LCSS		n ID: 534			lunNo: 70					
Prep Date: 7/1/2020	Analysis E	Date: 7/	4/2020	S	eqNo: 24	436050	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit

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2007006

09-Jul-20

	von Energy 1 Bull 31 State 1									
Sample ID: Ics-53454	SampT	ype: LC	s	Tes						
Client ID: LCSS	Batch	h ID: 53	454	R	RunNo: 7	0103				
Prep Date: 7/1/2020	Analysis D	Date: 7/	4/2020	S	SeqNo: 2	436050	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GR	.0) 22	5.0	25.00	0	86.6	80	120			
Surr: BFB	1000		1000		105	66.6	105			
Sample ID: mb-53450	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	Batch	h ID: 53	450	R	RunNo: 7	0103				
Prep Date: 7/1/2020	Analysis D	Date: 7/	3/2020	S	SeqNo: 2	436051	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GR	0) ND	5.0								
Surr: BFB	980		1000		98.4	66.6	105			
Sample ID: mb-53454	SampT	ype: ME	3LK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PBS	Batch	h ID: 53	454	R	RunNo: 7	0103				
Prep Date: 7/1/2020	Analysis D	Date: 7/	4/2020	S	SeqNo: 2	436052	Units: mg/K	íg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GR	.0) ND	5.0								
Surr: BFB	970		1000		96.6	66.6	105			

Qualifiers:

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- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Client: Project:	Devon En Red Bull	•••									
Sample ID:	2007006-001ams	SampT	ype: MS	5	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID:	BS20-01 1'	Batch	D: 534	450	RunNo: 70103						
Prep Date:	7/1/2020	Analysis D	ate 7/	3/2020		SeqNo: 24		Units: mg/K	a		
•	1112020							•	-		- ·
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene Toluene		0.97 1.0	0.025 0.050	0.9980 0.9980	0 0.01102	96.8 98.7	78.5 75.7	119 123			
Ethylbenzene		1.0 1.0	0.050	0.9980	0.01102	102	74.3	125			
Xylenes, Total		3.1	0.000	2.994	0	102	74.3	120			
•	ofluorobenzene	1.1	0.10	0.9980	Ŭ	110	80	120			
			Maar MC		Taa						
•	2007006-001amsd BS20-01 1'		ype: MS			tCode: EF RunNo: 7(8021B: Volat	liies		
	7/1/2020	Analysis D				SeqNo: 24		Units: mg/K	ία.		
i iep Dale.	1/1/2020	Analysis D	aie. 11	512020			+30077	orms. mg/r	'9		
Analyte		Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.97	0.025	0.9911	0	97.4	78.5	119	0.0785	20	
Toluene		0.99	0.050	0.9911	0.01102	99.1	75.7	123	0.356	20	
Ethylbenzene		1.0	0.050	0.9911	0	102	74.3	126	0.549	20	
Xylenes, Total	ofluorobenzene	3.1 1.1	0.099	2.973 0.9911	0	103 110	72.9 80	130 120	1.18 0	20 0	
Sull. 4-Diolii	lolidolobelizelle	1.1		0.3311		110	00	120	0	0	
Sample ID:	2007006-021ams	SampT	ype: MS	5	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID:	BS20-21 1'	Batch	n ID: 534	454	F	RunNo: 7	0103				
Prep Date:	7/1/2020	Analysis D	ate: 7/	4/2020	S	SeqNo: 24	436098	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.90	0.024	0.9588	0	93.4	78.5	119			
Toluene		0.93	0.048	0.9588	0.01188	95.4	75.7	123			
Ethylbenzene		0.94	0.048	0.9588	0	98.3	74.3	126			
Xylenes, Total		2.9	0.096	2.876	0	99.1	72.9	130			
Surr: 4-Brom	ofluorobenzene	1.0		0.9588		108	80	120			
Sample ID:	2007006-021amsd	SampT	ype: MS	D	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID:	BS20-21 1'	Batch	n ID: 534	454	F	RunNo: 70	0103				
Prep Date:	7/1/2020	Analysis D	ate: 7/	4/2020	S	SeqNo: 24	436099	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.92	0.024	0.9785	0	93.5	78.5	119	2.14	20	
Toluene		0.95	0.049	0.9785	0.01188	95.7	75.7	123	2.40	20	
Ethylbenzene		0.96	0.049	0.9785	0	98.5	74.3	126	2.15	20	
Xylenes, Total		2.9	0.098	2.935	0	98.5	72.9	130	1.37	20	
Surr: 4-Brom	ofluorobenzene	1.0		0.9785		105	80	120	0	0	

Qualifiers:

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- P Sample pH Not In Range
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WO#:	2007006

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Client: Devon	Energy									
Project: Red B	ull 31 State 1									
Sample ID: LCS-53450	Samp	Гуре: LC	S	Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS		h ID: 534			RunNo: 70					
Prep Date: 7/1/2020	Analysis [SeqNo: 24		(a			
	-						Units: mg/k	•		
Analyte Benzene	Result 0.97	PQL 0.025	5PK Value 1.000	SPK Ref Val 0	%REC 97.5	LowLimit 80	HighLimit 120	%RPD	RPDLimit	Qual
Toluene	0.98	0.020	1.000	0	98.1	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.4	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			
Sample ID: LCS-53454	Samp	Гуре: LC	S	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: LCSS		h ID: 534		F	RunNo: 70	0103				
Prep Date: 7/1/2020	Analysis [Date: 7/	4/2020	S	SeqNo: 24	436122	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	99.7	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.9	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			
Sample ID: mb-53450	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 534	450	F	RunNo: 7 (0103				
Prep Date: 7/1/2020	Analysis [Date: 7/	3/2020	S	SeqNo: 24	436123	Units: mg/k	ζg		
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		106	80	120			
Sample ID: mb-53454	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 534	454	F	RunNo: 70	0103				
Prep Date: 7/1/2020	Analysis [Date: 7/	4/2020	S	SeqNo: 24	436124	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
	ND	0.050								
Ethylbenzene	ND									
	ND	0.10				80				

Qualifiers:

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2007006	WO#:	
09-Jul-20		

	09-J

Client:Devon EnProject:Red Bull	nergy 31 State 1	l								
Sample ID: MB-53481	Samp	Туре: МВ	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batc	h ID: 534	481	F	RunNo: 7	0102				
Prep Date: 7/2/2020	Analysis [Date: 7/:	3/2020	S	SeqNo: 24	435895	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		101	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.3	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		101	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			
Sample ID: LCS-53481	Samp	Type: LC	S4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: BatchQC	Batc	h ID: 534	481	F	RunNo: 7	0102				
Prep Date: 7/2/2020	Analysis [Date: 7/:	3/2020	S	SeqNo: 24	435896	Units: mg/K	(g		
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	105	80	120			
Toluene	1.1	0.050	1.000	0	107	80	120			
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Total	3.3	0.10	3.000	0	108	80	120			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.4	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.7	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.8	70	130			
Surr: Toluene-d8	0.51		0.5000		101	70	130			
Sample ID: 2007006-041ams	Samp	Туре: МЅ	64	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: WS20-19 0-1	Batc	h ID: 534	481	F	RunNo: 7	0102				
Prep Date: 7/2/2020	Analysis [Date: 7/4	4/2020	5	SeqNo: 24	435898	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9434	0	117	71.1	115			S
Toluene	1.1	0.047	0.9434	0	115	79.6	132			
Ethylbenzene	1.1	0.047	0.9434	0	114	83.8	134			
Xylenes, Total	3.2	0.094	2.830	0	115	82.4	132			
Surr: 1,2-Dichloroethane-d4	0.47		0.4717		100	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.4717		90.4	70	130			
Surr: Dibromofluoromethane	0.47		0.4717		100	70	130			

Qualifiers:

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

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- RL Reporting Limit

Client: Devon Energy **Project:** Red Bull 31 State 1

Sample ID: 2007006-041ams	d Samp1	Гуре: МS	SD4	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: WS20-19 0-1	Batc	h ID: 534	481	F	anNo: 70	0102				
Prep Date: 7/2/2020	Analysis E	Date: 7/	4/2020	S	eqNo: 24	435899	Units: mg/K	íg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9434	0	111	71.1	115	4.66	20	
Toluene	1.1	0.047	0.9434	0	113	79.6	132	2.23	20	
Ethylbenzene	1.1	0.047	0.9434	0	113	83.8	134	0.676	20	
Xylenes, Total	3.1	0.094	2.830	0	111	82.4	132	3.42	20	
Surr: 1,2-Dichloroethane-d4	0.46		0.4717		97.9	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.41		0.4717		87.8	70	130	0	0	
Surr: Dibromofluoromethane	0.47		0.4717		100	70	130	0	0	
Surr: Toluene-d8	0.49		0.4717		103	70	130	0	0	

Qualifiers:

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- J Analyte detected below quantitation limits
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QC SUMMARY REPORT Ha

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L.		WO#:	2007006
Hall Env	ironmental Analysis Laboratory, Inc.		09-Jul-20
Client:	Devon Energy		

Project:	Red Bull 31 State	1								
Sample ID: MB-534		Type: ME					8015D Mod:	Gasoline	Range	
Client ID: PBS		ch ID: 534		R	unNo: 70	0102				
Prep Date: 7/2/20	20 Analysis	Date: 7/	3/2020	S	eqNo: 24	135961	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Basoline Range Organics	(GRO) ND	5.0								
Surr: BFB	490		500.0		97.5	70	130			
Sample ID: LCS-53	481 Samp	Type: LC	S	Tes	Code: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: LCSS	Bate	ch ID: 534	481	R	unNo: 70	0102				
Prep Date: 7/2/20	20 Analysis	Date: 7/	3/2020	S	eqNo: 24	135962	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Basoline Range Organics	(GRO) 22	5.0	25.00	0	89.9	70	130			
Surr: BFB	490		500.0		98.7	70	130			
Sample ID: 200700	5-042ams Samp	Type: MS	6	Tes	Code: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: WS20-2	0 0-1 Bate	ch ID: 534	481	R	unNo: 70	0102				
Prep Date: 7/2/20	20 Analysis	Date: 7/	4/2020	S	eqNo: 24	135965	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Basoline Range Organics	(GRO) 20	4.8	23.99	0	84.6	70	130			
Surr: BFB	470		479.8		98.6	70	130			
Sample ID: 200700	6-042amsd Samp	Type: MS	SD	Tes	Code: EF	PA Method	8015D Mod:	Gasoline	Range	
Client ID: WS20-2	0 0-1 Bate	ch ID: 534	481	R	unNo: 7(0102				
Prep Date: 7/2/20	20 Analysis	Date: 7/	4/2020	S	eqNo: 24	135966	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Basoline Range Organics	(GRO) 22	5.0	24.88	0	89.4	70	130	9.08	20	
Surr: BFB	490		497.5		98.3	70	130	0	0	

Qualifiers:

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- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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	ANAL	ONMENT YSIS RATORY	AL	TE	ll Environme L: 505-345-3 'ebsite: client	490 Albuquero 8975 FAX:	1 Hawki ue, NM 8 505-345	ns NE 87109 San -4107	nple Log-In C	heck List
Client N	lame:	Devon Ene	rgy	Work	Order Num	ber: 200	7006		RcptNo:	1
Receive	d By:	Juan Roja	IS	7/1/202	0 9:20:00 A	M		(Juansag	-	
Complet	ted By:	Juan Roja		7/1/202	0 10:34:26	AM		Guarrange Guarrange		
Reviewe	ed By:	25		7/1/	20			() 5)		
Chain d	of Cus	tody								
1. Is Ch	ain of C	ustody comp	lete?			Yes		No 🗌	Not Present	
2. How	was the	sample deliv	ered?			Cou	rier			
Log In	-	- ball a Dawn a					-	0.10		
3. Was a	an atten	pt made to c	cool the samp	les?		Yes		No 🗌	NA 🗌	
4. Were	all samp	oles received	at a tempera	ture of >0° C	to 6.0°C	Yes		No 🗌		
5. Samp	ole(s) in	proper contai	iner(s)?			Yes		No 🗌		
6. Suffici	ent sam	iple volume f	or indicated te	est(s)?		Yes	~	No 🗌		
7. Are sa	amples (except VOA	and ONG) pro	perly preserv	ed?	Yes	~	No 🗌		
8. Was p	oreserva	tive added to	bottles?			Yes		No 🔽	NA 🗌	
9. Receiv	ved at le	ast 1 vial wit	h headspace	<1/4" for AQ \	/OA?	Yes		No 🗌	NA 🗹	
10. Were	any sar	nple containe	ers received b	roken?		Yes		No 🗹	# of preserved bottles checked	/
10 10 10 mg 10 mg 1		ork match bol ancies on cha	tle labels? ain of custody))		Yes		No 🗌	for pH:	>12 unless noted)
12. Are ma	atrices of	correctly iden	tified on Chair	n of Custody?		Yes	•	No 🗌	Adjusted?	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ere requested	?		Yes		No 🗌	/	A
		ng times able ustomer for a	to be met? uthorization.)			Yes		No 🗌	Checked by: <	ppA 7.1.20
Special	Handl	ing (if app	licable)							
15. Was o	client no	tified of all di	screpancies v	vith this order	?	Yes		No 🗌	NA 🔽	
	Person	Notified:			Date					
11.8	By Who	m:			Via:	🗌 eM	ail 🗌 l	Phone 🗌 Fax	In Person	
	Regardi						_			
		nstructions:								
16. Addit	ional rei	marks:								
17. <u>Cool</u> Co	er Infor	mation Temp ⁰C	Condition	Seal Intact	Seal No	Seal D	ate	Signed By		
1		0.7	Good							

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Client: DUO/ A. Day'i S Mailing Address: Phone #: email or Fax#: QA/QC Package: □ Standard	Devon Enlingy Day'i S ddress: Fax#: ackage: ard □ Level	E Devon Energy Davis g Address: e #: or Fax#: C Package: andard □ Level 4 (Full Validation)	lidation)	Decidand Project Name: Red Bull Project #: DOE - 0014 Project Manager: Notali e	N - S	o vay I State 1 den			HALL ANALI ANALI ANALIA MWW.ha MWW.ha 505-345-3975 505-345-3975	HALL ENVI ANALYSIS www.hallenvironme kins NE - Albuquer 345-3975 Fax 50 Analysis Re Analysis Re	PO4, SO4		HALL ENVIRONMENTAL ANALYSIS LABORATOR www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request Analysis Request	TAL CORY	rived by OCD: 1/12/20 <mark>23 9</mark> :59:43 AM
Date Time	コ Az Cor コ Other ろひ・ /	mpliance Sample Name BSDO-01 BSSDO-01		Sampler: MJ P On Ice: PYes # of Coolers: 1 Cooler Temp _{(inteluding} cr): Cooler Temp _{(inteluding} cr): Type and # Type U O 2 I C a	MJP A-Yes rs: 1 mp(including cr): () Preservative 1 C A	200 H			EDB (Method 504.1) FPHs by 8310 or 8270	RCRA 8 Metals	8560 (VOA)	(AOV-im92) 0728	Total Coliform (Preser		
9:30 9:30 9:40 9:50 10:00 10:00 10:30		8520-05 8520-05 8520-05 8520-05 8520-09 8520-09 8520-09				-005- -005- -005- -005- -005- -005- -005-									
10:40 Date: 10:50 Date: Time: 1 Date: Time: 1 If necessary.	Relinquished by: Relinquished by: Remples submitted	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		Received by: Received by: Received by:	Via: Via: Via: D COLMEN	-011 Date Time UP50/20 1200 Date Time 2/1/20 9-20	Remarks:	0 #	5	Jobagali	Tallie Dale	C:Natalic Gr	Gondon Direct B: 11 Dewen	= 23	Page 166 of 17

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E Devion Energy	;	5 Dey Rush		HA	HALL ENVI ANALYSIS	SIS	ENVIRONMENTAL YSIS LABORATOR	ENTAL
	Project Name: Rid Riv 11 31	31 Stote 1		Ŵ	alle	nvironm	www.hallenvironmental.com	ç
			Tel I	Tel 505-345-3975	·	Eax 5	Albuquerque, NM 87 109 Fax 505-345-4107	۵ ۲
	20E-00141				Ana	Ilysis R	Analysis Request	
	Project Manager:		1.1		108	*~	(Ju	
Level 4 (Full Validation)	Notali L'Bor	Gordon					əsdA\tr	
Az Compliance	Sampler: MJ P		אם /	(٢.				
	On Ice: D-Yes	□ No	05	⊅ 09	S			
	# of Coolers:		19)) pc	elete	(-	
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Sample Name	Container Preservative Type and # Type	HEAL NO.	8081 P	EDB (V	PAHs I RCRA) 0928	8) 0728 D lefoT	
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BS20-15 1'		-015						
1, 1, 1, 1, 1,		-016						
11 L1-0c58		-017						
13520-18 1'		210-						
BS20-19 1		-0101						
1 00-20		-020						
100-050		-021						
BSau-Da l'		220-						
W530-01 0-1'		-073						
0		h20-						
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HALL ENVIRONMENTAL	UKALUKT	37109						IƏSƏ	14)		0.000	Total Co													Pa	ge 16	201 0 4028
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Turn-Around T	Project Name:	Hed 15	Project #:))))	Project Manager:	Netal		Sampler: N	On Ice:	olers:	Cooler Temp(including CF):	Container Type and #	1.1.1.1.1.1	1										-	Received by:	Received by:	/ hr/
ord							alidation)						0-1	0-1	1-0		1-0	-6	0-1	0	0-1	0-1	1-0		1		
Chain-of-Custody Record							Level 4 (Full Validation)	Ipliance				Sample Name	N520-03	ho-absr	20-0650	06-065N	ro-desk	N 520-08	PO-062N	W 520-10	11-0eSM	WS20-12	N520-13	W520-14	PA:	by:	
ain-of-Cus]	□ Az Compliance	□ Other_			Matrix	50.11	2										-	Relinquished by:	Relinquished by:	N N
Chain	C.T	Mailing Address:		:#:	email or Fax#:	QA/QC Package:	Standard	Accreditation:	LAC	□ EDD (Type)		Time	1:00	01:1	1:20	1:30	1:40	1:50	2:00	01.0	oe:e	0:30	oh:e	3:50	Time:	Time:	M/h/
Client:		Mailing		Phone #:	email	QAVQC	□ Sta	Accret	D NELAC			Date	60/2	-		-	-				-			-	Date:	Date	1 mg

Received by OCD: 1/12/2023 9	59:43 AM	Page 169 of 17
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345-3975 Fax 505-345-4107 Analysis Request	(AOV) 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)	Leant notated on the analytical
ALL E NALY ww.hallen ns NE - Al 5-3975 Ana	PAHs by 8310 or 8270SIMS PCRA 8 Metals CI) F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	V & 2083967
HALL ANAL www.hall 4901 Hawkins NE - Tel. 505-345-3975 Ar	8081 Pesticides/8082 PCB's EDB (Method 504.1)	An sub-contra
1490	ВТЕХ) МТВЕ / ТМВ's (8021) ТРН:8015D(GRO / DRO / МRO)	A Constitution A Cons
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Turn-Around Time: Standard Project Name: Reject #: Project #:	Project Manager: N M M M L Sampler: M M On Ice: 2-Yes # of Coolers: 1 Cooler Temp(metuding cr): Cooler Temp(metuding cr): Type and # Type	HOT IC Received by: Via: Received by: Via:
p	idation)	0-1-00-1- 0-1-100-1-100-1-100-1-100-1-100-100
Chain-of-Custody Record	 Level 4 (Full Validation) Az Compliance Other Matrix Sample Name 	3: 0 < 3: 0 < 10 10 10 10 10 10 11 11
Client: OUUN Client: OUUN Mailing Address:	email or Fax#: QA/QC Package: Standard Accreditation: I NELAC Date Time M	1000 3:00 3:10 3:20 3:20 3:20 3:20 3:20 3:20 3:20 3:20 3:20 3:20 3:20 1 3:50 1 3:50 1 3:50 1 3:50 1 1:00 1 1:00 1 1:00 1 1:00 1 1:00 1 1:00 1 1:00 1 1:00 1 1:00 1 1:00 1 1:00 1 1:00 1 1:00 1 1:00 1 1:00 1 1:00 1 1:00 1 1:00 1 1:00

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

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

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

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

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

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	175443
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
amaxwell	None	1/17/2023