

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

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2233339274
District RP	
Facility ID	
Application ID	

Responsible Party

Responsible Party WPX Energy Permain, LLC	OGRID 246289
Contact Name Jim Raley	Contact Telephone 575-689-7597
Contact email Jim.Raley@dmn.com	Incident # (assigned by OCD) nAPP2233339274
Contact mailing address 5315 Buena Vista Drive, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.017103 Longitude -103.967874
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: East Pecos Pipeline Spill	Site Type Oil Well
Date Release Discovered: 11/17/2022	API# (if applicable) N/A

Unit Letter	Section	Township	Range	County
A	27	26S	29E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: _____)

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 100	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 4425	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Poly weld failed on above ground 10" produced water transfer line. Allowing release of fluids to ROW and surface.


Volume estimate attached.

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls, significant property damage.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Rosa Romero, Mike Bratcher via email on 11/17/2022.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Jim Raley</u> Title: <u>Environmental Professional</u>	
Signature: <u></u> Date: <u>11/29/2022</u>	
email: <u>jim.raley@dvn.com</u> Telephone: <u>575-689-7597</u>	
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u> Date: <u>11/29/2022</u>	

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>54</u> (ft bgs)
Did this release impact groundwater or surface water? - TBD – To determine is intent of plan.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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


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

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

State of New Mexico
Oil Conservation Division

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Jim Raley Title: Environmental Professional
Signature:  Date: 4/27/2023
email: jim.raley@dn.com Telephone: 575-689-7597

OCD Only

Received by: Jocelyn Harimon Date: 04/28/2023

Release Volume Estimation Equation

Equation (1) Inputs	(LxW)/43560sqft	Equation (1) Assumptions
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1 acre = 43560 sqft

Area		Length (ft)		Width (ft)	3.5000	Acres
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Equation (2) Inputs	Ksat*27,154gal/(42gal)	Equation (2) Assumptions
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1 acre/inch = 27,154 gal

Ksat	0.25	in Inches per hour located at	https://websoilsurvey.nrcs.usda.gov
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1 bbl = 42gal

161.63	BBL/Acre/hr
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Equation (3)	(Eq2)X(Eq1) Area adjusted volume
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565.71	BBL/hr max
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Equation (4) Inputs	(Eq3)X release duration (hours)+recovered volume	Equation (4) Assumptions
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recovered fluids are not
in soil solution

0	BBL
---	-----

8	Duration (hr)
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4525.67	BBL
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¹ infiltration rate. The rate at which water penetrates the surface of the soil at any given instant, usually expressed in inches per hour. The rate can be limited by the infiltration capacity of the soil or the rate at which water is applied at the surface: (National Soil Survey Handbook (USDA))

² (Ksat) Hydraulic Conductivity. (National Soil Survey Handbook (USDA)) conductivity is often referred to as coefficient of permeability, most commonly shortened to permeability

Estimated approx. 100 bbls of total was oil based on visual observation. JR

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1625 N. French Dr., Hobbs, NM 88240
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 162104

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 162104
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	11/29/2022

Environmental Site Characterization Plan

General Information

NMOCD District:	District 2 - Eddy County	Incident ID:	napp2233339274
Landowner:	Ross Ranch LLC.	RP Reference:	N/A
Client:	Devon Energy Corp.	Site Location:	East Pecos Pipeline Spill
Date:	April 10, 2023	Project #:	22E-03982
Client Contact:	Jim Raley	Phone #:	575.689.7597
Vertex PM:	Kent Stallings	Phone #:	575.725.5001

Objective

The objective of the site characterization plan is to determine the extent of environmental impacts resulting from the East Pecos Pipeline Spill (hereafter referred to as "East Pecos"). The incident was discovered on November 17, 2022, due to a failed poly weld on an above ground 10-inch produced water transfer line. The estimated volumes of produced water and crude oil released into the adjacent pasture was 4,425 barrels (bbl) and 100 bbl, respectively. Upon discovery of the release, the New Mexico Oil Conservation Division (NMOCD) was immediately notified, and Kelley Oilfield Services was contracted to begin the initial remediation. Closure criteria has been selected per New Mexico Administrative Code 19.15.29 and is presented in Table 1. All applicable research required by the NMOCD Release Notification and Corrective Action (C-141) as it pertains to closure criteria selection is presented in Attachment 1.

Table 1. Closure Criteria for Soils Impacted by a Release		
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
51 feet - 100 feet	Chloride	10,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS – Total dissolved solids

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

BTEX – Benzene, toluene, ethylbenzene, and xylenes

Site Assessment

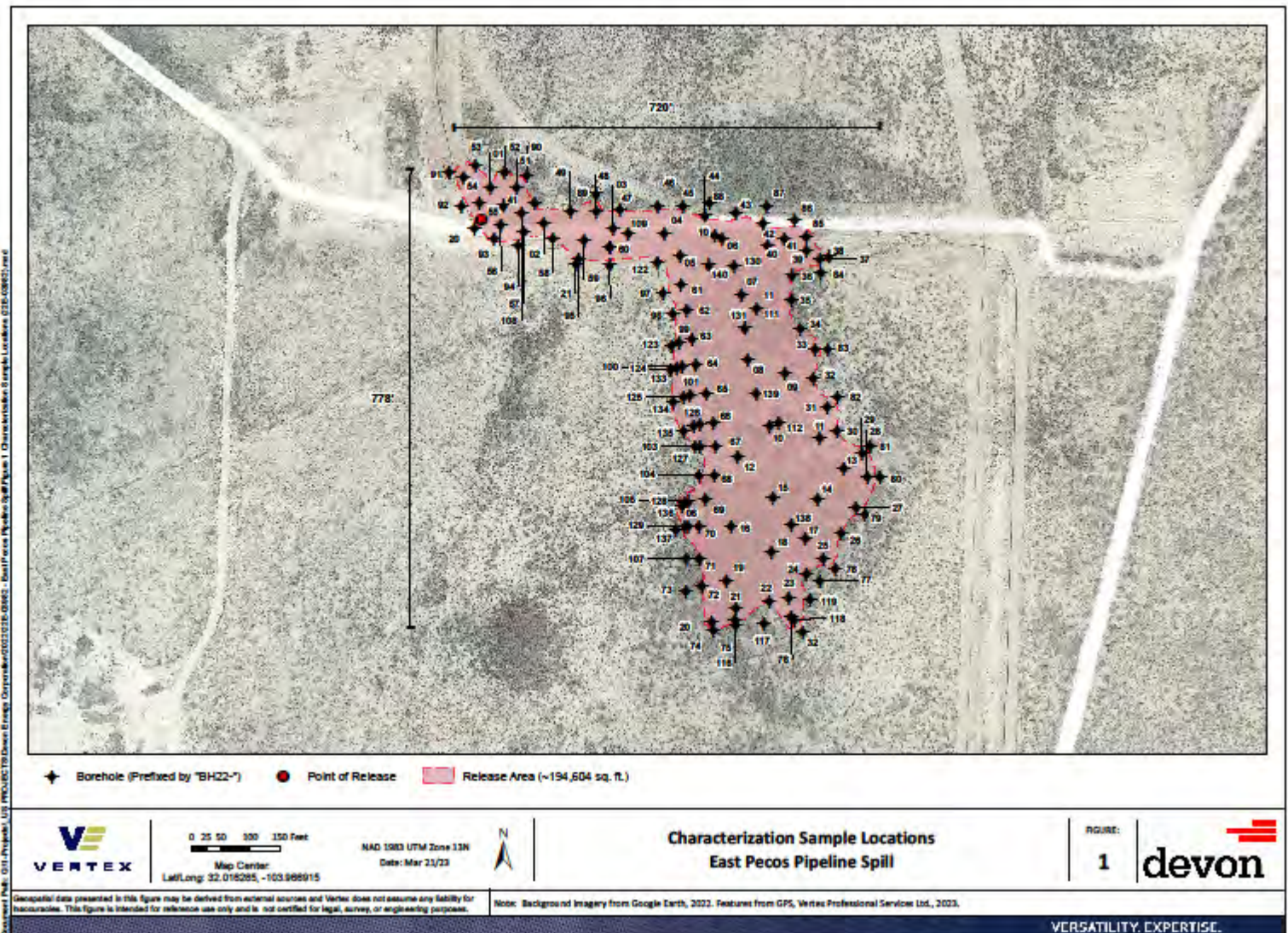
On November 19, 2022, Vertex Resource Services Inc. (Vertex) personnel met with Kelley Oilfield Services at East Pecos to map the release and determine boundaries for the initial remediation. Kelley Oilfield Services scraped the surface of the release area to at least 6 inches below ground surface (bgs) to remove the residual crude oil and produced water for disposal off-site. The contaminated material was stockpiled on plastic liner within the release area until it was hauled away for disposal. Initial cleanup response was completed and all scraped material removed from site on January 4, 2023. Areas of environmental concern identified include the pasture in the vicinity of the release point, and the pasture east and south of the release point.

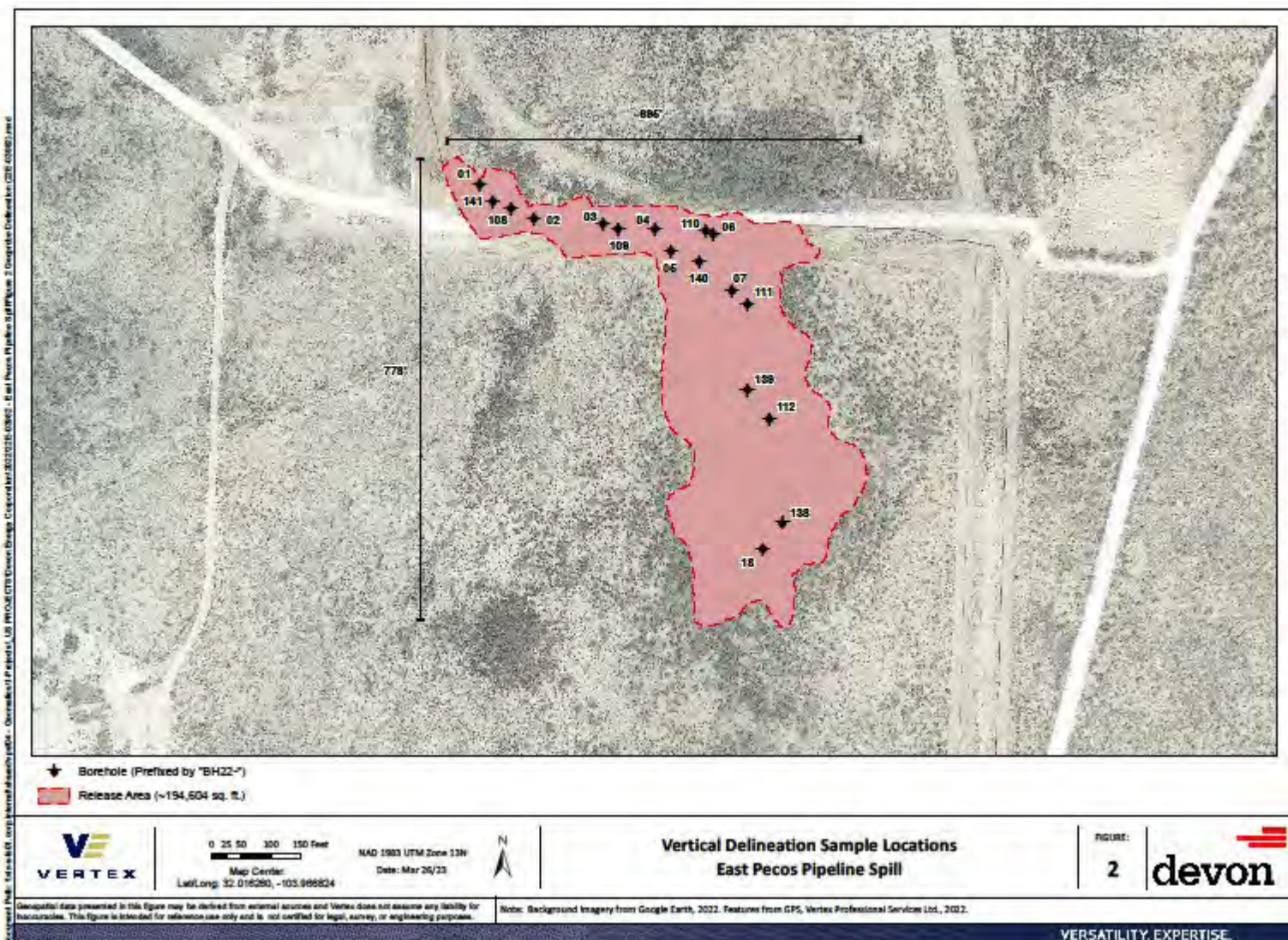
Vertex personnel began horizontal delineation of the release on December 21, 2022, and continued through February 22, 2023. Vertical delineation was attempted with a Geoprobe GH42 on December 28 and 29, 2022; however, the equipment was not able to advance to depths sufficient to collect clean soil. On January 23, 2023, HCI Drilling used an air-rotary drill to advance boreholes BH22-108 through BH22-112 to 40 feet bgs. Field screening and laboratory results for the 40-foot samples exceeded NMOCD strictest criteria for chloride.

Environmental Site Characterization Plan



Talon/LPE advanced boreholes BH22-138 through BH22-141 with a sonic drill rig between March 15 and 17, 2023. BH22-138 was advanced to 50 feet bgs and the samples collected between 20 and 45 feet bgs were dry. The sample collected at 50 feet bgs was wet and field screening and laboratory results exceeded NMOCD strictest criteria for chloride. Boreholes BH22-139 and BH22-140 were advanced to 45 feet bgs through dry soil, and the samples collected at 45 feet exceeded NMOCD strictest criteria for chloride. Vertical delineation was achieved at BH22-141, which was advanced to 79 feet bgs through dry soil; samples collected between 40 and 79 feet bgs were below NMOCD strictest criteria for TPH and chloride. The release area and all borehole locations to date are presented on Figure 1 below. The vertical delineation borehole locations are presented on Figure 2 below. Field screening and laboratory results are presented in Table 2 (Attachment 2). Daily field reports and laboratory data reports are presented in Attachments 3 and 4, respectively.





Additional Characterization

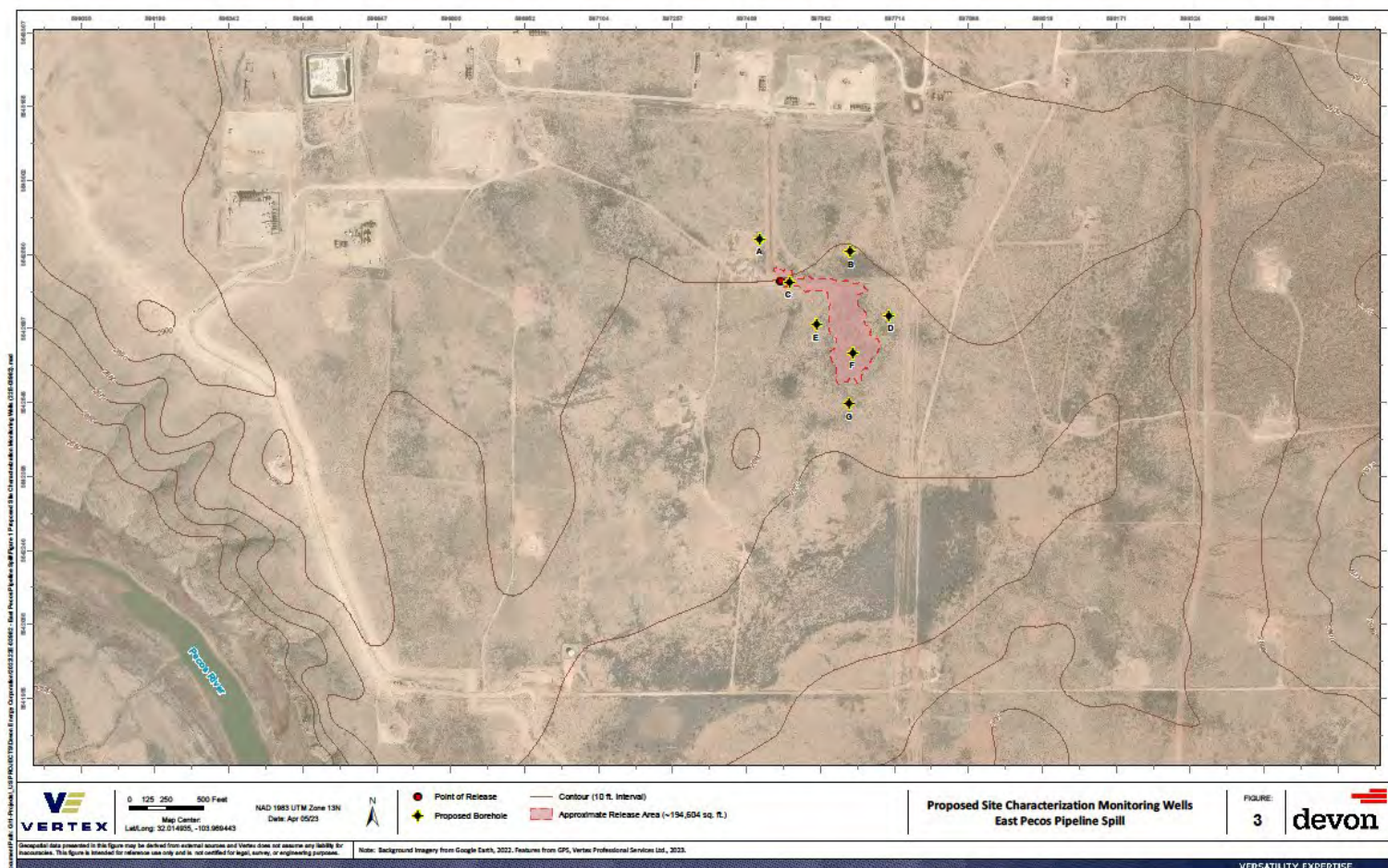
General

The saturated soil collected from borehole BH22-138 at 50 feet bgs indicated that the release may have reached a sub-surface water bearing unit. Additional information will be required to determine the behavior and location of groundwater and potential interaction with the release. Considering that soil perturbation due to soil remediation, specifically excavation, might impact the soil-to-groundwater migration pathway, a groundwater assessment and determination is proposed as the next step before further remediation of the soil takes place. This will expedite and focus remediation efforts and clarify the site model without causing any undue environmental exposure. The proposed subsurface groundwater investigation is outlined below.

Proposed Groundwater Monitoring Well

Seven groundwater investigation wells are proposed for the initial site characterization to assess groundwater quality conditions within the upper water table in the spill release area, and areas up-gradient, cross-gradient, and down-gradient. The proposed groundwater investigation well locations are depicted on Figure 3 and the rationale for each investigation well is provided in the table below.

Environmental Site Characterization Plan



Investigation Well ID	Proposed Investigation Well Location Rationale
A	Northwest of the point of release to assess up-gradient/background groundwater quality
B	North of the release area to assess up-gradient/background groundwater quality
C	Adjacent to the point of release to assess groundwater quality at the source location
D	Assess groundwater quality and delineate potential impacts east and cross-gradient of the release area
E	Assess groundwater quality and delineate potential impacts west and cross-gradient of the release area
F	Characterize groundwater quality within the southern lobe of the release area
G	Assess groundwater quality and delineate potential impacts south and down-gradient of the release area

Note: Monitoring well identification (ID) will be updated following well completion

Investigation Well Installation

A sonic drilling rig is proposed for advancing each borehole for groundwater investigation well installation at the site. The sonic rig allows for advancement of a core barrel while casing the borehole to avoid potential collapsing of formation material (i.e., prevents cross-contamination). Each borehole will be advanced to a depth approximately 15 feet (ft) below the water table and Vertex will maintain a detailed description of the lithology encountered while drilling. Based on the soil assessment conducted at the site, and on available well logs within the area, the anticipated depth to the water table is approximately 54 ft below ground surface.

VERSATILITY. EXPERTISE.

Environmental Site Characterization Plan

Each groundwater investigation well will be completed with a 2-inch diameter polyvinyl chloride (PVC) standpipe threaded to a 2-inch diameter machine slotted (0.010 in slot or coarser) PVC well screen. Given the uncertainty of seasonal variation in groundwater levels at the site, or potential draw-down effects from other activities in the area, a minimum screen length of 10 ft is suggested for each well. The annulus around and approximately 2 ft above the screens will be backfilled with a filter pack. A primary seal consisting of bentonite pellets will be placed approximately 2 ft above the filter pack followed by bentonite grout slurry to near surface. A steel casing (equipped with a lockable lid) will be installed to protect the aboveground portion of the PVC standpipe (stick-up). Each groundwater investigation well will be surveyed for geographical position and elevation relative to sea level.

Groundwater Investigation Well Development

Prior to collection of groundwater samples, each groundwater investigation well will be developed to remove built-up sediment and drilling debris from within the screened interval and filter pack. Well development allows for collection of representative formation groundwater samples and establishes natural hydraulic flow to the well. The groundwater investigation wells will be developed by bailing water and/or surging until field parameters (temperature, pH, and specific conductance) stabilize.

The groundwater investigation wells will be allowed to recover to static levels prior to sample collection. Vertex proposes installation of transducer data loggers to monitor water level recovery following well development activities. The collected data will inform on the rate of near bore groundwater recharge conditions, potential drawdown effects from other operations, and formation hydraulic properties.

Groundwater Monitoring and Sampling

The static water level from each groundwater investigation well will be measured with the use of a water level meter. Dedicated bailers or inertial pumps will be used to purge each groundwater investigation well prior to sample collection. Three well volumes will be purged from each well or wells may be purged dry in instances of slow recharge. Groundwater samples will be collected from each groundwater investigation well when sufficient water has recovered. Field parameters, including temperature, pH, and specific conductance will be measured and recorded at the time of sample collection. The groundwater samples will be submitted to an accredited laboratory for analysis of salinity parameters and petroleum hydrocarbons.

Hydraulic Conductivity Testing

Hydraulic conductivity testing will be performed on each (or select) groundwater investigation well to determine the hydraulic properties of the upper water table at the site. Based on the lithology encountered within the upper water table zone, Vertex will conduct either a rising head (fine sediment/slow recovery) or falling head test (coarse sediment/fast recovery). The rising head test is conducted by purging water from static level to create sufficient displacement and monitor groundwater recovery at a set interval. A falling head test is conducted by inserting a slug (solid/weighted pipe) to create sufficient upward displacement from static level and monitor groundwater recovery at a set interval. The field collected data (recovery vs. time) will be analyzed with the use of commercial software to estimate the hydraulic conductivity value.

Site Remediation and Characterization Report

Vertex requests within ninety (90) days of acceptance of this characterization plan, to complete drilling of the investigation wells. Vertex will prepare a technical report summarizing the hydrogeological characterization of the site, which will include the following:

- Description of the site and previous environmental assessments
- A description of potential receptors within the area
- Summary of the field investigation and methodologies employed
- Depth to groundwater levels
- Inferred groundwater flow characteristics and lateral hydraulic gradient
- Estimated groundwater flow velocity

**Environmental Site Characterization Plan**

- Field-measured physical parameter results and laboratory analytical results
- A detailed assessment and evaluation of groundwater quality conditions
- Conclusion and recommendations

Further remedial actions will be proposed after sufficient groundwater investigation has been conducted. Should you have any questions or concerns, please do not hesitate to contact Project Manager Kent Stallings at 346.814.1413 or kstallings@vertex.ca.

Lakin Pullman

Lakin Pullman, B.Sc.
ENVIRONMENTAL SPECIALIST, REPORTING

April 17, 2023

Date

Kent Stallings P.G.

Kent Stallings, P.G.
PROJECT MANAGER, REPORT REVIEW

April 17, 2023

Date

Attachments

- Attachment 1. Closure Criteria Research
- Attachment 2. Table
- Attachment 3. Daily Field Reports (with photographs)
- Attachment 4. Laboratory Data Reports (with Chain of Custody Forms)

ATTACHMENT 1

Closure Criteria Worksheet				
Site Name: East Pecos Pipeline Spill				
Spill Coordinates:		X: 32.016373	Y: -103.966326	
Site Specific Conditions		Value	Unit	Reference
1	Depth to Groundwater	54	feet	1
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	4,593	feet	2
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	7,961	feet	3
4	Within 300 feet from an occupied residence, school, hospital, institution or church	181,731	feet	4
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	2,095	feet	5
	ii) Within 1000 feet of any fresh water well or spring	2,095	feet	5
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)	6
7	Within 300 feet of a wetland		feet	7
8	Within the area overlying a subsurface mine	No	(Y/N)	8
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low	9
10	Within a 100-year Floodplain	Undetermined	year	10
11	Soil Type	Upton- Simona complex		11
12	Ecological Classification	Shallow		12
13	Geology	Pqm		13
NMAC 19.15.29.12 E (Table 1) Closure Criteria		51-100'	<50' 51-100' >100'	

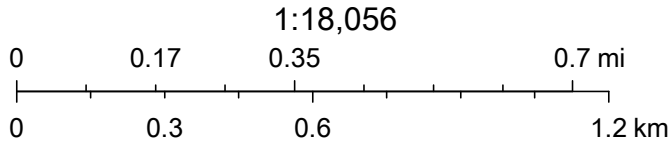
OSE POD 0.5 mile



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GIS WATERS PODs

- Active
- Pending
- Plugged
- OSE District Boundary
- New Mexico State Trust Lands
- Subsurface Estate
- Surface Estate
- Both Estates
- NHD Flowlines
- Artificial Path
- Stream River
- SiteBoundaries



Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

OSE POD 0.5 mile



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GIS WATERS PODs

Active

Pending

New Mexico State Trust Lands

Subsurface Estate

Surface Estate

OSE District Boundary

NHD Flowlines

Stream River

SiteBoundaries

Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar

Released to Imaging: 5/8/2023 11:43:26 AM

Web Generated Map
Map is generated by web users.



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
NA	C 04653 POD5	4	4	4	22	26S	29E	597784	3543186

x

Driller License: 1249 **Driller Company:** ATKINS ENGINEERING ASSOC. INC.

Driller Name: JACKIE D ATKINS

Drill Start Date: 07/26/2022 **Drill Finish Date:** 07/26/2022 **Plug Date:**

Log File Date: 08/18/2022 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: **Depth Well:** 72 feet **Depth Water:** 67 feet

x

Water Bearing Stratifications:	Top	Bottom	Description
	64	70	Limestone/Dolomite/Chalk
	70	72	Sandstone/Gravel/Conglomerate

x

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

3/18/23 2:37 PM

POINT OF DIVERSION SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD-5 (TW-2)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4653			
	WELL OWNER NAME(S) Stephens & Johnson Operating Co.				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS PO BOX 2249				CITY Wichita Falls	STATE TX	ZIP 7307-2249	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 1	SECONDS 14.42	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE 103	57	52.42	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE SE SE Sec. 22 T26S R29E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 7/26/2022		DRILLING ENDED 7/26/2022		DEPTH OF COMPLETED WELL (FT) Soil Boring	BORE HOLE DEPTH (FT) ±72	DEPTH WATER FIRST ENCOUNTERED (FT) ±67	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 67.7	DATE STATIC MEASURED 7/27/2022	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	72	±6.5	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

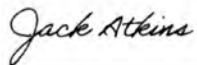
FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. C-4653	POD NO. 5	TRN NO. 729202
LOCATION 26S.29E.22 444	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)		ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO			Y	N	
	0	25	25	Sand, medium/fine grained, poorly graded, with clay, Dark Brown	Y	✓ N	
	25	45	20	Sand, medium/fine grained, poorly graded, with gravel (0.25"), Tan Brown	Y	✓ N	
	45	64	19	Sand, medium/fine grained, poorly graded, Tan Brown	Y	✓ N	
	64	70	6	Clay, Medium Plastic, with sand and caliche, gypsum Reddish Brown, moist	✓ Y	N	
	70	72	62	Sand, medium/fine grained, poorly graded, with gravel (0.25-.75"), Tan Brown	✓ Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):		
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					0.00		

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION: Secured soil boring with auger and hydrated bentonite, to seal the boring to the ground surface. Pending approval from New Mexico State Oil and Gas Division on completing as a monitoring well.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt, Lucas Middleton	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 Jackie D. Atkins	8/18/2022
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME	DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO. <u>C-4653</u>	POD NO. <u>5</u>	TRN NO. <u>729202</u>	
LOCATION <u>26S-29E.22 444</u>	WELL TAG ID NO.		PAGE 2 OF 2


OSE 017 AUG 18 2022 09:53



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04653 POD6	4	4	4	22	26S	29E	597782	3543171 

Driller License: 1249 **Driller Company:** ATKINS ENGINEERING ASSOC. INC.

Driller Name: JACKIE D ATKINS

Drill Start Date: 07/25/2022 **Drill Finish Date:** 07/25/2022 **Plug Date:** 07/26/2022

Log File Date: 08/18/2022 **PCW Rev Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: **Depth Well:** 74 feet **Depth Water:** 67 feet

Water Bearing Stratifications:	Top	Bottom	Description
	64	74	Limestone/Dolomite/Chalk

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

3/18/23 2:36 PM

POINT OF DIVERSION SUMMARY



2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

July 8, 2022

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4653 Pod-5-6

To whom it may concern:

Attached please find a well log & record for C-4653 POD-5-6 , and Plugging Record for C-4653 POD-6. , in duplicate. C-4653 POD 1-4 , will not be used, please note that these can be canceled.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

05/07/2023 10:07:07



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

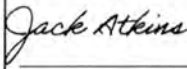
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD-6 (TW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4653			
	WELL OWNER NAME(S) Stephens & Johnson Operating Co.				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS PO BOX 2249				CITY Wichita Falls	STATE TX	ZIP 7307-2249	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32		MINUTES 1	SECONDS 13.71	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
		LONGITUDE 103		57	52.14			W
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE SE SE Sec. 22 T26S R29E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 7/25/2022		DRILLING ENDED 7/25/2022		DEPTH OF COMPLETED WELL (FT) Soil Boring	BORE HOLE DEPTH (FT) ±74	DEPTH WATER FIRST ENCOUNTERED (FT) ±67	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 67.1	DATE STATIC MEASURED 7/26/2022	
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF FITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	74	±6.5	Soil Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO.	C-4653	POD NO.	6	TRN NO.	729202
LOCATION	26S.29E.22 444			WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	14	14	Clay, Medium Plastic, with sand and caliche, Brown	Y ✓ N	
	14	30	16	Sand, medium/fine grained, poorly graded, increasing clay, Tan	Y ✓ N	
	30	44	14	Clay, Medium Plastic, with sand and caliche, gypsum Reddish Brown	Y ✓ N	
	44	54	10	Sand, medium/fine grained, poorly graded, with clay, Tan	Y ✓ N	
	54	60	6	Clay, Stiff, Medium Plastic, with brown sand Reddish Brown	Y ✓ N	
	60	64	4	Clay, Stiff, Medium Plastic, with cemented sand, Reddish Brown	Y ✓ N	
	64	74	10	Clay, Low Plastic, with sand and caliche, gypsum Reddish Brown, wet	✓ Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:				TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
	5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.			
MISCELLANEOUS INFORMATION: Grouted from total depth to surface using augers as tremie Plugged using Type I/II neat cement (5.2 gallons per 94 lb. sack)						
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt, Lucas Middleton						
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: <div style="display: flex; justify-content: space-between;"> <div>  SIGNATURE OF DRILLER / PRINT SIGNEE NAME </div> <div> Jackie D. Atkins DATE </div> </div>					

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO. C-4653	POD NO. 6	TRN NO. 729202	
LOCATION 265.29E 22-444	WELL TAG ID NO.		PAGE 2 OF 2




New Mexico Office of the State Engineer

Water Right Summary








[get image list](#)

WR File Number: C 04653 **Subbasin:** CUB **Cross Reference:** -
Primary Purpose: EXP EXPLORATION
Primary Status: PMT PERMIT
Total Acres: **Subfile:** - **Header:** -
Total Diversion: 0 **Cause/Case:** -
Owner: STEPHENS & JOHNSON OPERATING
Contact: WILLIAJM (MIKE) KINCAID

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
 get images	729202	EXPL	2022-07-11	PMT	LOG	C 04653 POD1-6	T	0	0

Current Points of Diversion

POD Number	Well Tag	Source	Q						(NAD83 UTM in meters)		Other Location Desc
			64	Q16	Q4	Sec	Tws	Rng	X	Y	
C 04653 POD 1	NA		4	4	4	22	26S	29E	597826	3543180	
C 04653 POD2	NA		4	4	4	22	26S	29E	597825	3543169	
C 04653 POD3	NA		4	4	4	22	26S	29E	597805	3543169	
C 04653 POD4	NA		4	4	4	22	26S	29E	597806	3543182	
C 04653 POD5	NA	Shallow	4	4	4	22	26S	29E	597784	3543186	
C 04653 POD6	NA	Shallow	4	4	4	22	26S	29E	597782	3543171	

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

3/18/23 2:46 PM

WATER RIGHT SUMMARY



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)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_04653 POD6		CUB	ED	4	4	4	22	26S	29E	597782	3543171	482	74	67	7
C_04653 POD5		CUB	ED	4	4	4	22	26S	29E	597784	3543186	497	72	67	5
C_03605 POD1		CUB	ED	4	2	3	27	26S	29E	596990	3541983	967	45	0	45
C_04630 POD1		CUB	ED	3	4	3	22	26S	29E	596792	3543275	999			
C_01354 X-3		CUB	ED	2	1	3	23	26S	29E	598323	3543837	1322	170		
C_02038		C	ED	3	2	4	26	26S	29E	599204	3541992*	1741	200		
C_04561 POD1		CUB	ED	4	3	3	24	26S	29E	599924	3543208	2354			

Average Depth to Water: **44 feet**

Minimum Depth: **0 feet**

Maximum Depth: **67 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 597621

Northing (Y): 3542717

Radius: 5000

*UTM location was derived from PLSS - see Help

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

3/18/23 2:24 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum)					(R=POD has been replaced and no longer serves this file, C=the file is closed)				(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)						
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 64	q 16	q 4	Sec	Tw	Rng	X	Y	Distance
C 04719	CUB	MON	0	DEVON ENERGY	ED	C 04719 POD1	NA				1	4	2	27	26S	29E	597646	3542706	28
C 04718	CUB	MON	0	DEVON ENERGY	ED	C 04718 POD1	NA				3	2	2	27	26S	29E	597596	3542772	60
C 04716	CUB	MON	0	DEVON ENERGY	ED	C 04716 POD1	NA				1	4	2	27	26S	29E	597638	3542637	81
C 04717	CUB	MON	0	DEVON ENERGY	ED	C 04717 POD1	NA				4	1	2	27	26S	29E	597489	3542803	156
C 01354	CUB	SRO	0	RECOVERY WATER COMPANY	ED	C 01354 X-7					1	2	27	26S	29E	597289	3542964*	413	
C 01355	CUB	EXP	0	GEORGE ROSS	ED	C 01355 X-7					1	2	27	26S	29E	597289	3542964*	413	
C 04653	CUB	EXP	0	STEPHENS & JOHNSON OPERATING	ED	C 04653 POD6	NA			Shallow	4	4	4	22	26S	29E	597782	3543171	482
						C 04653 POD3					4	4	4	22	26S	29E	597805	3543169	488
						C 04653 POD2					4	4	4	22	26S	29E	597825	3543169	496
						C 04653 POD5				Shallow	4	4	4	22	26S	29E	597784	3543186	497
						C 04653 POD4					4	4	4	22	26S	29E	597805	3543182	501
						C 04653 POD 1					4	4	4	22	26S	29E	597826	3543180	506
C 01354	CUB	SRO	0	RECOVERY WATER COMPANY	ED	C 01354 X					3	1	26	26S	29E	598093	3542499*	519	
C 01355	CUB	EXP	0	GEORGE ROSS	ED	C 01355 X					3	1	26	26S	29E	598093	3542499*	519	
C 01354	CUB	SRO	0	RECOVERY WATER COMPANY	ED	C 01354 X-4					4	4	22	26S	29E	597713	3543339*	628	
C 01355	CUB	EXP	0	GEORGE ROSS	ED	C 01355 X-4					4	4	22	26S	29E	597713	3543339*	628	
C 01354	CUB	SRO	0	RECOVERY WATER COMPANY	ED	C 01354					1	4	27	26S	29E	597263	3542160*	662	
C 01355	CUB	EXP	0	GEORGE ROSS	ED	C 01355					1	4	27	26S	29E	597263	3542160*	662	
C 01570	C	STK	3	WALTER B PASCHAL	ED	C 01570					1	3	26	26S	29E	598077	3542093*	772	
C 04666	CUB	MON	0	COTERRA ENERGY COMPANY	ED	C 04666 POD 2	NA				4	2	3	27	26S	29E	596960	3542036	948
C 03605	CUB	MON	0	SAFETY & ENVIRONMENTAL SOLUTIO	ED	C 03605 POD1					4	2	3	27	26S	29E	596989	3541983	967
C 04630	CUB	EXP	0	DEVON ENERGY	ED	C 04630 POD1	NA				3	4	3	22	26S	29E	596792	3543275	999
C 04666	CUB	MON	0	COTERRA ENERGY COMPANY	ED	C 04666 POD 1	NA				4	2	3	27	26S	29E	596905	3542010	1005
C 01354	CUB	SRO	0	RECOVERY WATER COMPANY	ED	C 01354 X-6					1	4	22	26S	29E	597297	3543769*	1100	
C 01355	CUB	EXP	0	GEORGE ROSS	ED	C 01355 X-6					1	4	22	26S	29E	597297	3543769*	1100	
						C 01355 X-3					1	3	23	26S	29E	598121	3543721*	1121	
C 01354	CUB	SRO	0	RECOVERY WATER COMPANY	ED	C 01354 X-3					2	1	3	23	26S	29E	598323	3543837	1322
C 03481	C	PRO	0	ROSS-BRANTLEY JOINT VENTURE	ED	C 01354 X-3					2	1	3	23	26S	29E	598323	3543837	1322
C 01354	CUB	SRO	0	RECOVERY WATER COMPANY	ED	C 01354 X-5					3	3	3	22	26S	29E	596462	3543354	1322
C 03479	C	PRO	0	ROSS-BRANTLEY JOINT VENTURE	ED	C 01354 X-5					3	3	3	22	26S	29E	596462	3543354	1322
C 01355	CUB	EXP	0	GEORGE ROSS	ED	C 01355 X-5					3	3	22	26S	29E	596479	3543421*	1341	
C 01354	CUB	SRO	0	RECOVERY WATER COMPANY	ED	C 01354 X-2					1	4	26	26S	29E	598895	3542093*	1418	
C 01355	CUB	EXP	0	GEORGE ROSS	ED	C 01355 X-2					1	4	26	26S	29E	598895	3542093*	1418	
C 01569	C	STK	3	KATHRYN F PASCHAL	ED	C 01569					4	4	1	22	26S	29E	596978	3544093*	1518
C 02038	C	PRO	3	J.C. WILLIAMSON	ED	C 02038				Shallow	3	2	4	26	26S	29E	599204	3541992*	1741
C 04561	CUB	MON	0	XTO ENERGY INC	ED	C 04561 POD1	NA				4	3	3	24	26S	29E	599923	3543208	2354
C 04720	CUB	EXP	0	ENSOLUM LLC	ED	C 04720 POD3	NA				3	1	3	12	26S	29E	599731	3546834	4626
						C 04720 POD1					3	1	3	12	26S	29E	599700	3546912	4682
						C 04720 POD6					4	1	3	12	26S	29E	599857	3546880	4726
C 03793	C	STK	3	BECKHAM RANCH INC	ED	C 03793 POD1					1	4	2	30	26S	30E	602348	3542716	4727
C 04720	CUB	EXP	0	ENSOLUM LLC	ED	C 04720 POD5	NA				4	1	3	12	26S	29E	599840	3546920	4753
						C 04720 POD4					4	1	3	12	26S	29E	599812	3546955	4771

Record Count: 42

UTMNAD83 Radius Search (in meters):

Easting (X): 597621

Northing (Y): 3542717

Radius: 5000




Sorted by: Distance

*UTM location was derived from PLSS - see Help

East Pecos Pipeline Spill

USGS 0.5 mile radius

Legend

-  Feature 1
-  Feature 2
-  JC Williams Laydown Yard

320126103562801
320118104574401

320135103573301

320112103574501

32.017052, -103.967601  East Pecos Pipeline Spill

320106103555301





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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- **ALERT!** USGS will be performing an upgrade to their network on **Thursday, November 17, 2022, starting at 10:00pm EST**. During the maintenance period, the Water Data for the Nation web portal and water services will be accessible; however, delivery of the most recent time-series data and WaterAlert notifications will be disrupted. The maintenance period is not expected to exceed 4 hours, after which the backlog of time-series data will be processed and delivered.
- [Water Data for the Nation Blog](#)

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 320106103555301

Minimum number of levels = 1

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

USGS 320106103555301 26S.29E.26.13143

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°00'51.3", Longitude 103°57'42.0" NAD83

Land-surface elevation 2,883.00 feet above NGVD29

The depth of the well is 140 feet below land surface.

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

This well is completed in the Rustler Formation (312RSLR) local aquifer.

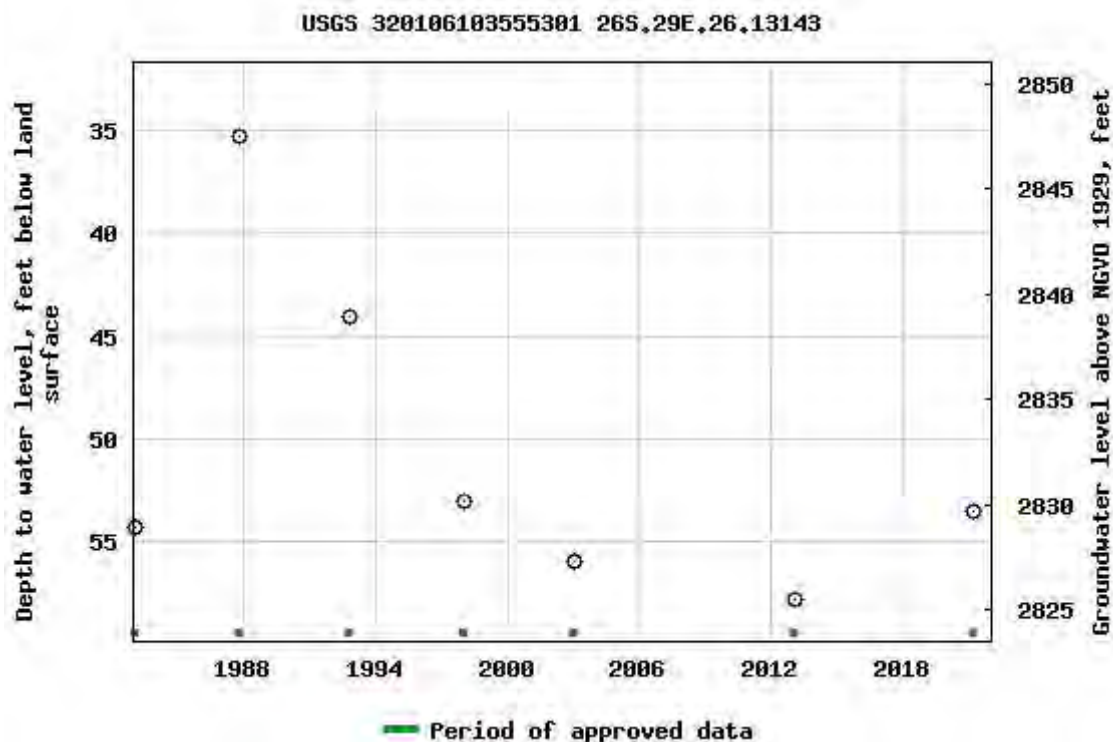
Output formats

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Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

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

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

Page Last Modified: 2022-11-20 12:19:56 EST

0.52 0.45 nadww01





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United States

GO

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- **ALERT!** USGS will be performing an upgrade to their network on **Thursday, November 17, 2022, starting at 10:00pm EST**. During the maintenance period, the Water Data for the Nation web portal and water services will be accessible; however, delivery of the most recent time-series data and WaterAlert notifications will be disrupted. The maintenance period is not expected to exceed 4 hours, after which the backlog of time-series data will be processed and delivered.
- [Water Data for the Nation Blog](#)

USGS 320106103555301 26S.29E.26.13143

Available data for this site

SUMMARY OF ALL AVAILABLE DATA

GO

Well Site

DESCRIPTION:

Latitude 32°00'51.3", Longitude 103°57'42.0" NAD83

Eddy County, New Mexico, Hydrologic Unit 13070001

Well depth: 140 feet

Land surface altitude: 2,883.00 feet above NGVD29.

Well completed in "Other aquifers" (N9999OTHER) national aquifer.

Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1983-01-26	2021-02-24	7
Revisions	Unavailable (site:0) (timeseries:0)		
Additional Data Sources	Begin Date	End Date	Count

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center

Email questions about this site to [New Mexico Water Science Center Water-Data Inquiries](#)

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: NWIS Site Information for USA: Site Inventory

URL: [https://waterdata.usgs.gov/nwis/inventory?](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=320106103555301)

[agency_code=USGS&site_no=320106103555301](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=320106103555301)



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

Page Last Modified: 2022-11-20 12:17:47 EST

0.26 0.25 vaww01



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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

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- **ALERT!** USGS will be performing an upgrade to their network on **Thursday, November 17, 2022, starting at 10:00pm EST**. During the maintenance period, the Water Data for the Nation web portal and water services will be accessible; however, delivery of the most recent time-series data and WaterAlert notifications will be disrupted. The maintenance period is not expected to exceed 4 hours, after which the backlog of time-series data will be processed and delivered.
- [Water Data for the Nation Blog](#)

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 320112103574501

Minimum number of levels = 1

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

USGS 320112103574501 26S.29E.22.333242

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°01'12", Longitude 103°57'45" NAD27

Land-surface elevation 2,892.0 feet above NGVD29

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

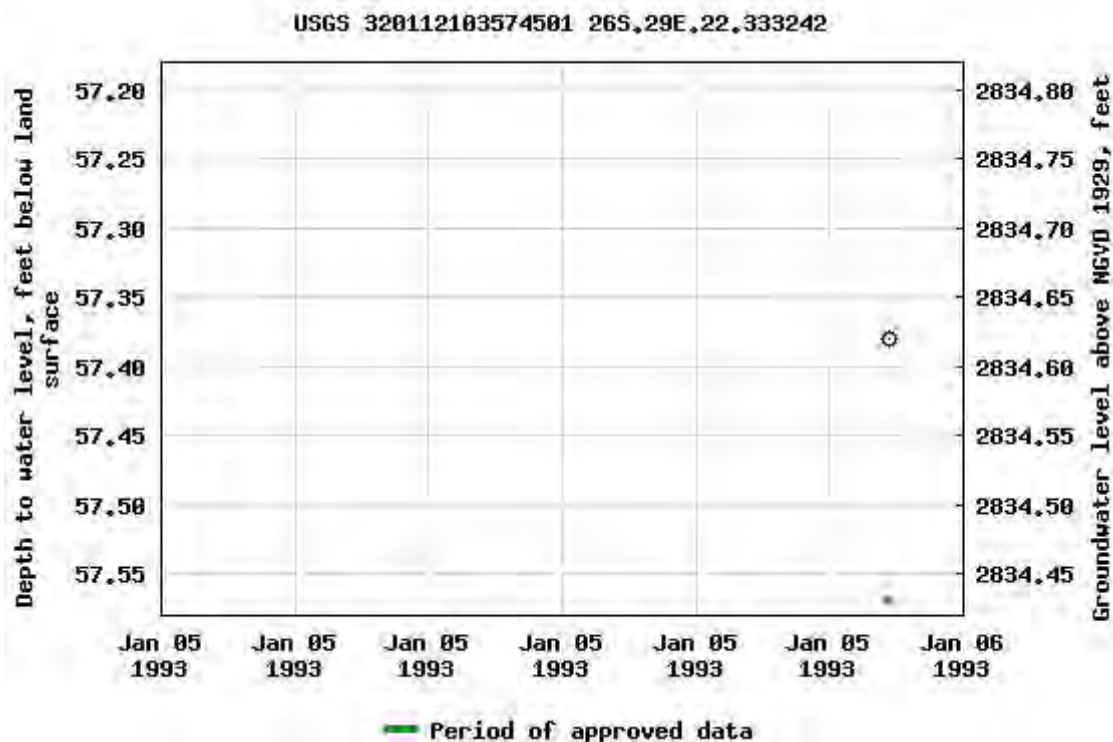
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2022-11-20 12:22:33 EST

0.57 0.51 nadww01

East Pecos Pipeline Spill

Nearest Well: USGS 320106103555301
Distance: 0.40 miles (2,095 feet)
DTGW: 55 feet

Legend

- 320106103555301
- 📍 East Pecos Pipeline Spill

East Pecos Pipeline Spill

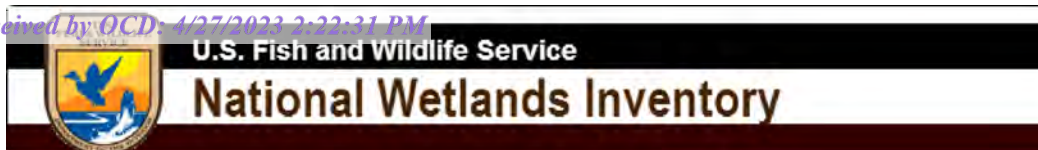
320106103555301

Google Earth

Released to Imaging: 5/8/2023 11:43:26 AM



900 ft



East Pecos Pipeline Spill



November 20, 2022

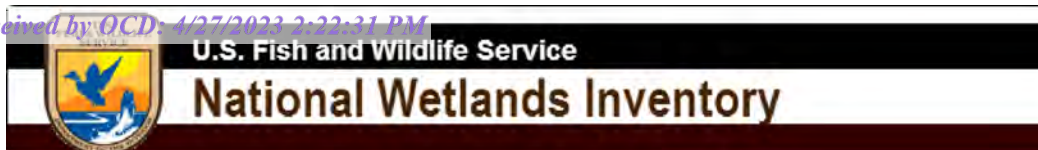
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

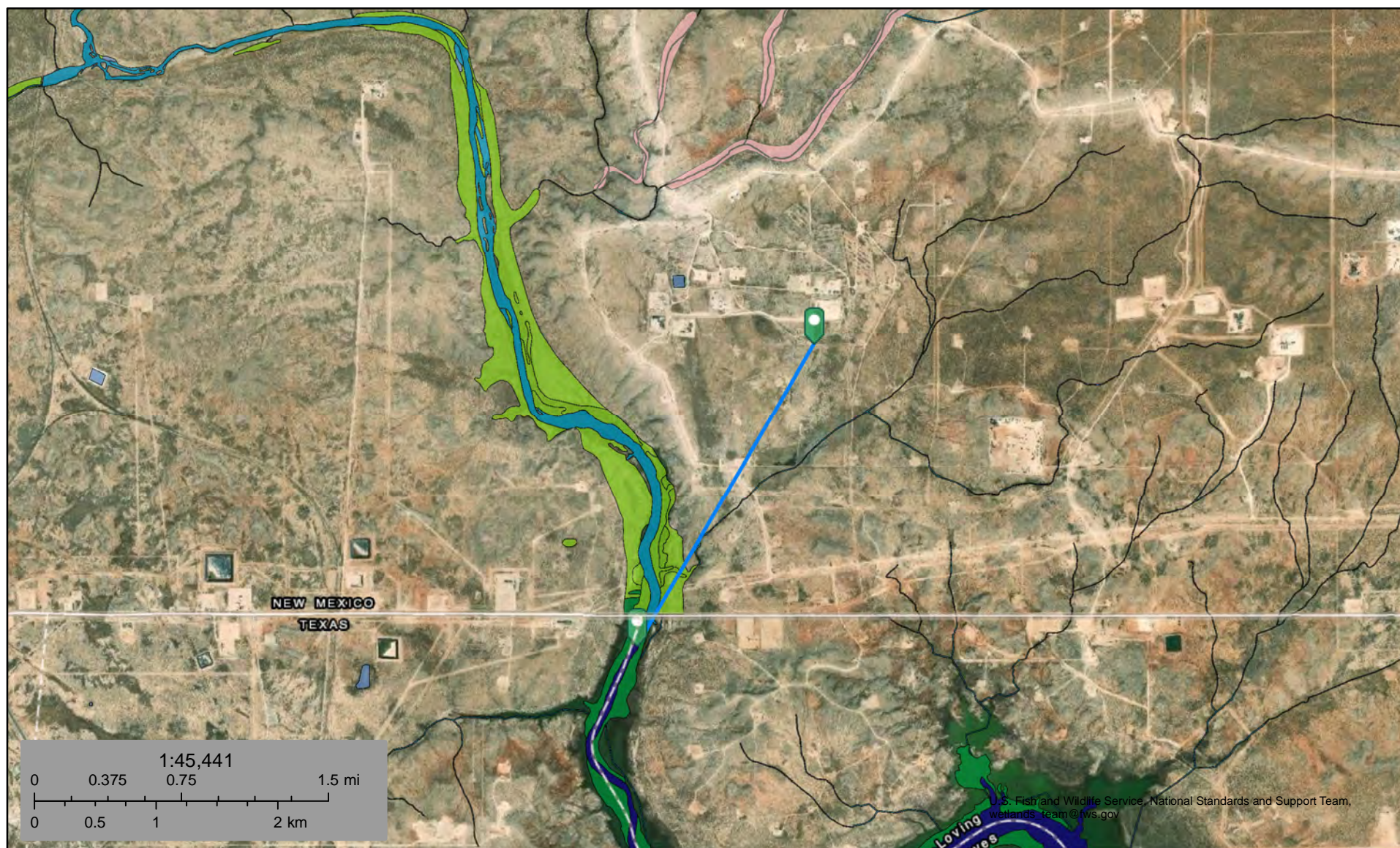
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

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



East Pecos Pipeline Spill



November 20, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland



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

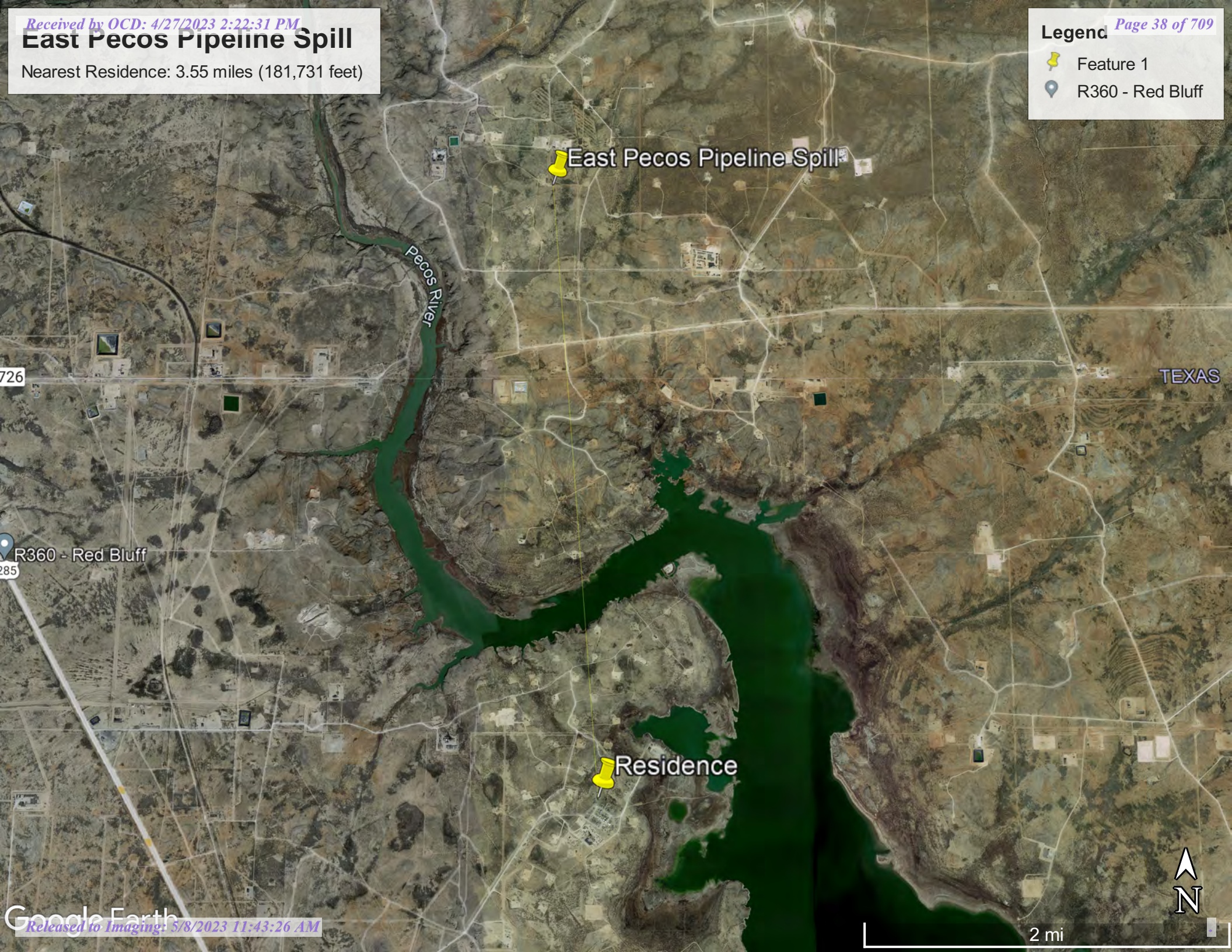
- Lake
- Other
- Riverine

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

East Pecos Pipeline Spill

Nearest Residence: 3.55 miles (181,731 feet)



-  Feature 1
-  R360 - Red Bluff

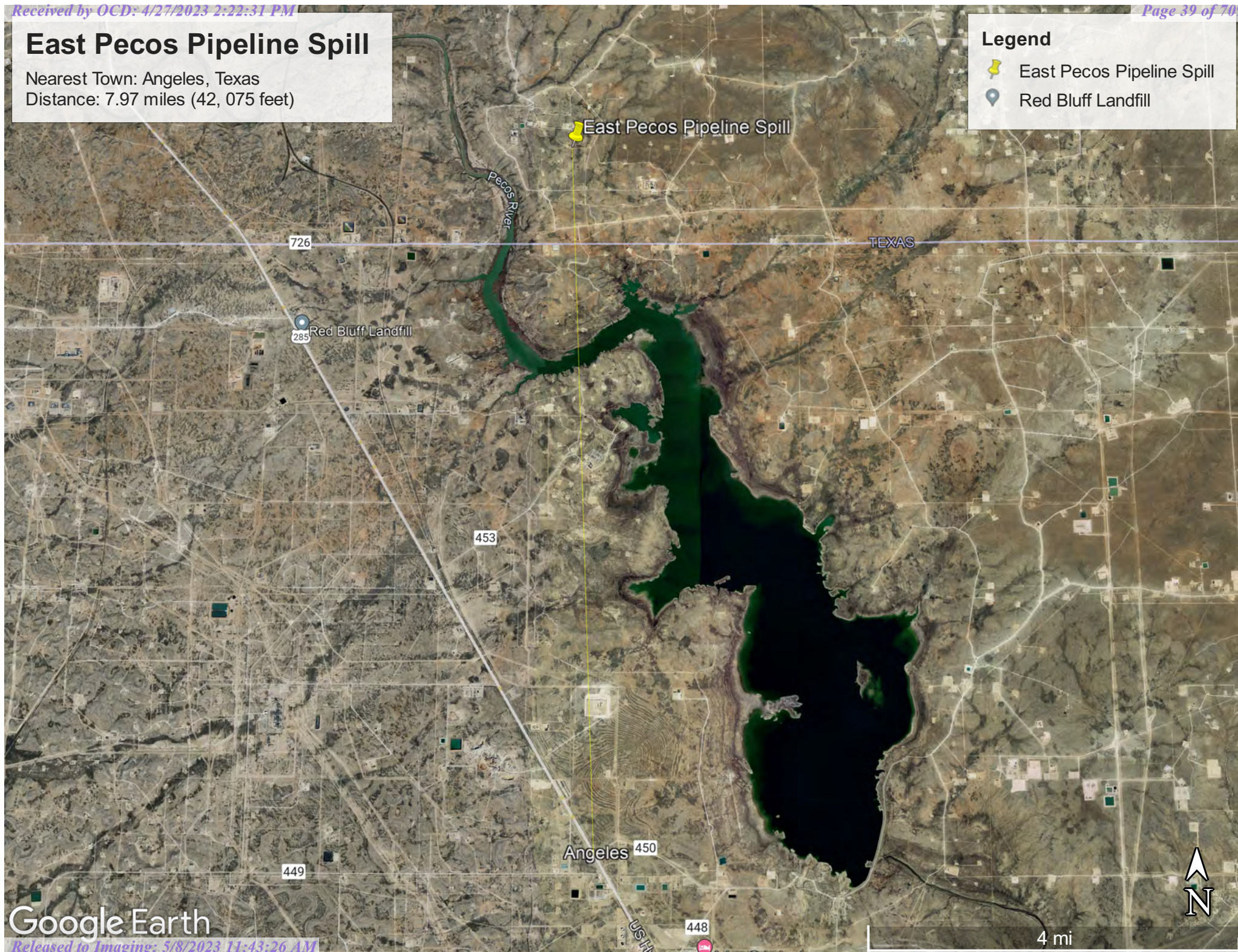


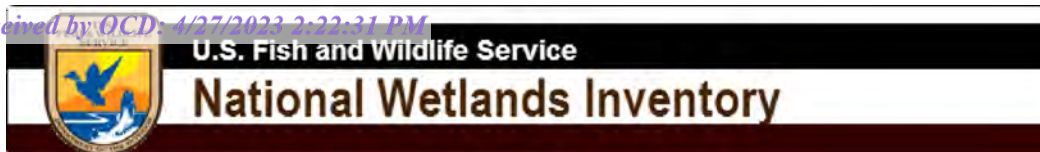
East Pecos Pipeline Spill

Nearest Town: Angeles, Texas
Distance: 7.97 miles (42, 075 feet)

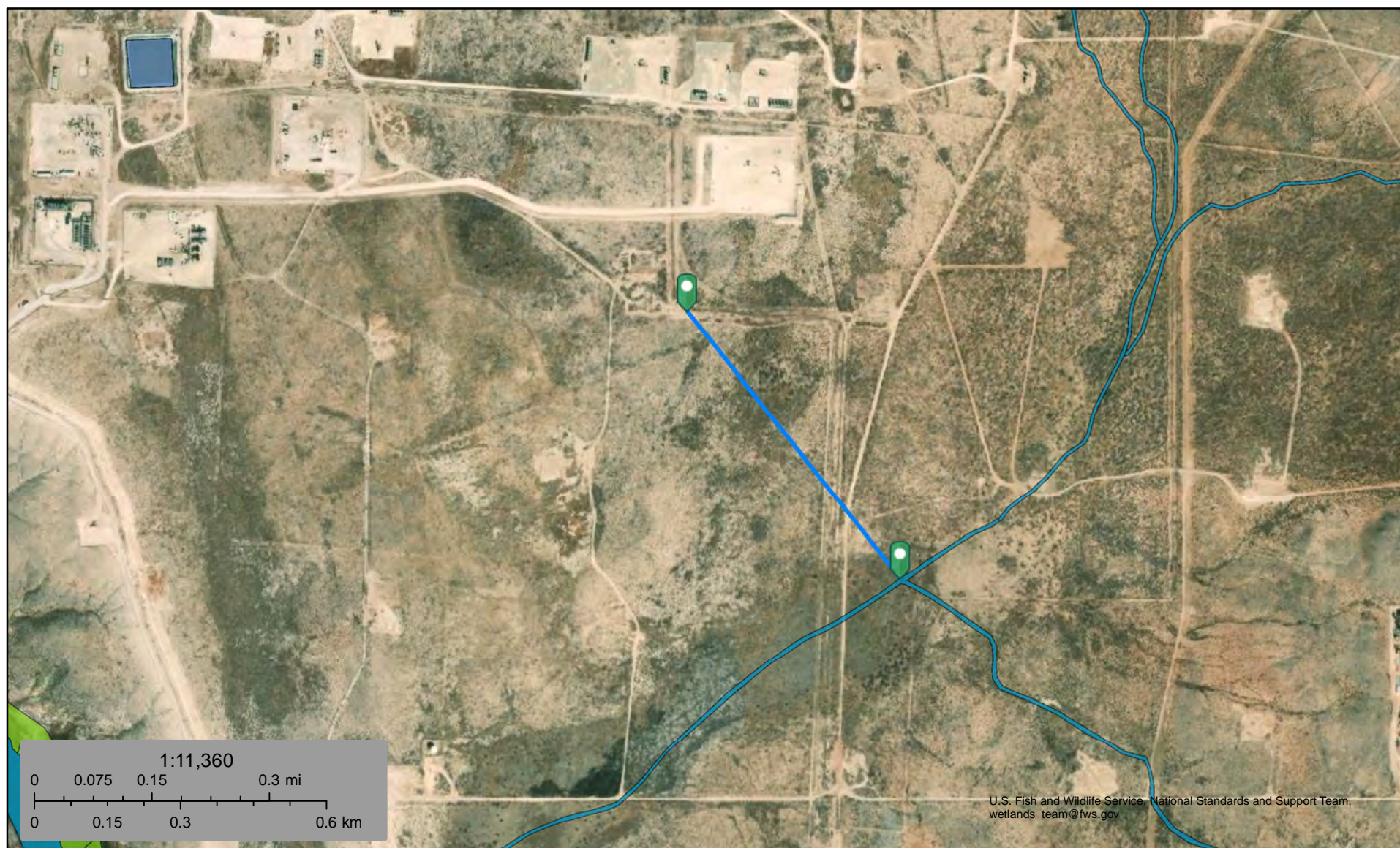
Legend

-  East Pecos Pipeline Spill
-  Red Bluff Landfill





East Pecos Pipeline Spill



November 20, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

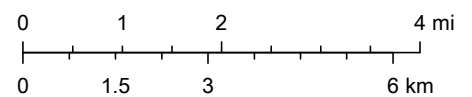
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

East Pecos Pipeline Spill



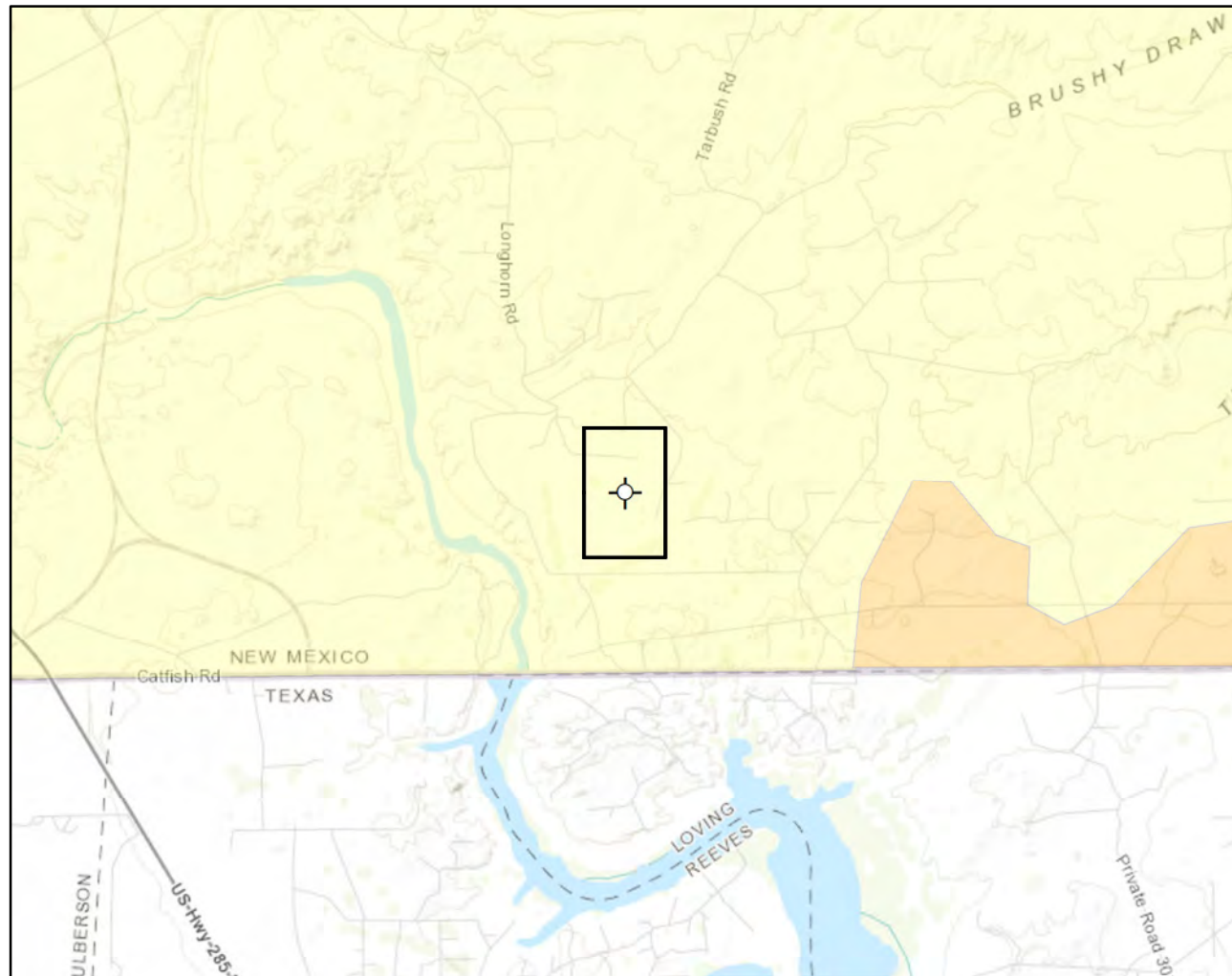
11/19/2022, 5:39:17 PM

1:144,448



National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.

Document Path: \\vtx-s4s01.corp.internal\shared\pvs04 - Geomatics\1-Projects\US PROJECTS\Devon Energy Corporation\2022\22E-03982 - East Pecos Pipeline SpillFigure X Karst Potential Schematic (22E-03982).mxd



Karst Potential

- Critical
- High
- Medium
- Low

- Site Location
- Site Buffer (1,000 sq. ft)

Overview Map

0 0.25 0.5 1 mi



Detail Map

0 150 300 600 ft.



Map Center:
Lat/Long: 32.017052, -103.967601

NAD 1983 UTM Zone 13N
Date: Nov 24/22



Karst Potential East Pecos Pipeline

FIGURE:

X



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

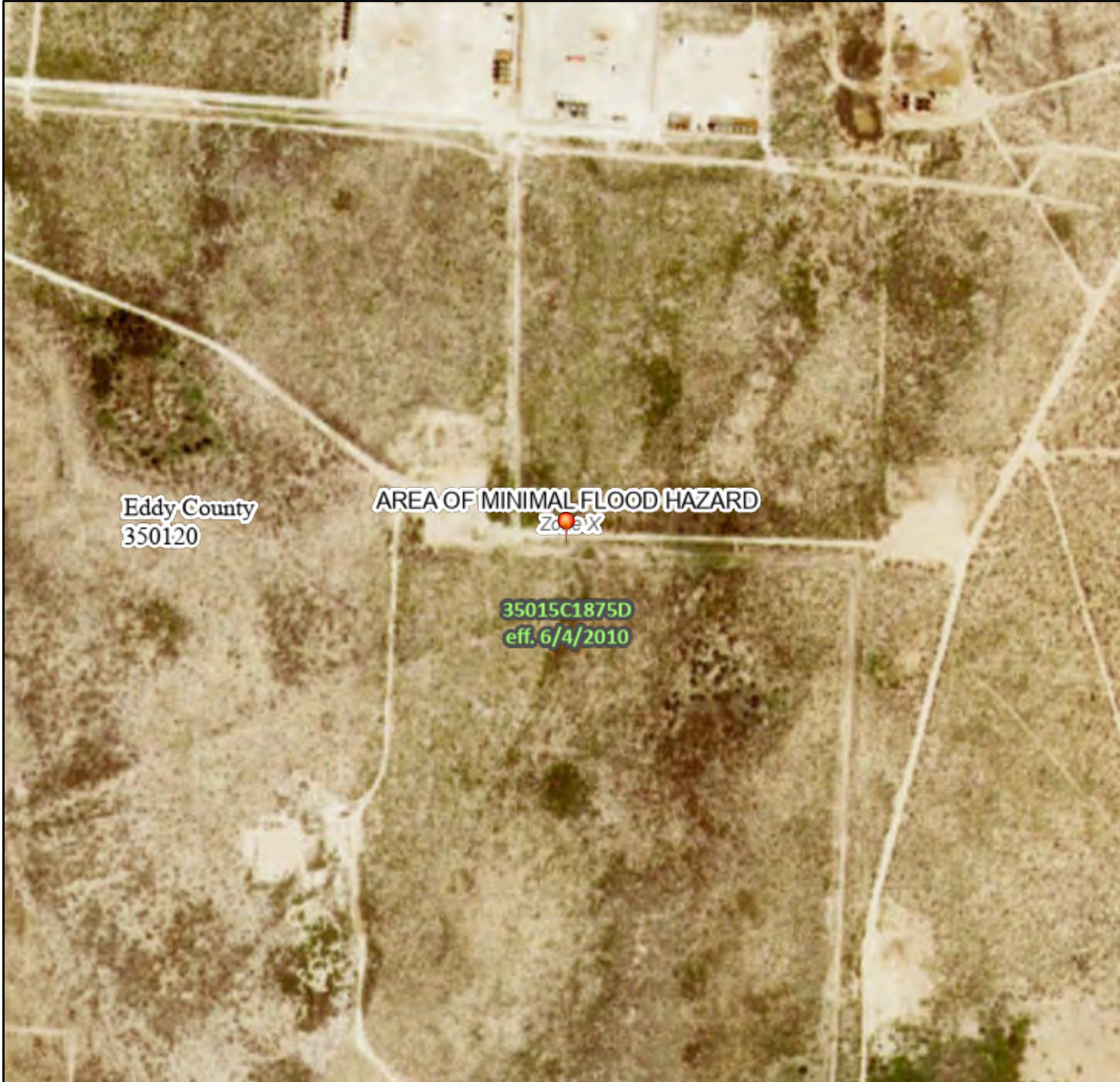
Note: Inset Map, ESRI 20XX; Overview Map: ESRI World Topographic. Karst potential data sourced from Roswell Field Office, Bureau of Land Management, 2020 or United States Department of the Interior, Bureau of Land Management. (2018). Karst Potential.

VERSATILITY. EXPERTISE.

National Flood Hazard Layer FIRMette



103°58'22"W 32°1'17"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		Cross Sections with 1% Annual Chance Water Surface Elevation
OTHER FEATURES		Coastal Transect
		Base Flood Elevation Line (BFE)
OTHER FEATURES		Limit of Study
		Jurisdiction Boundary
OTHER FEATURES		Coastal Transect Baseline
		Profile Baseline
OTHER FEATURES		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
MAP PANELS		Unmapped



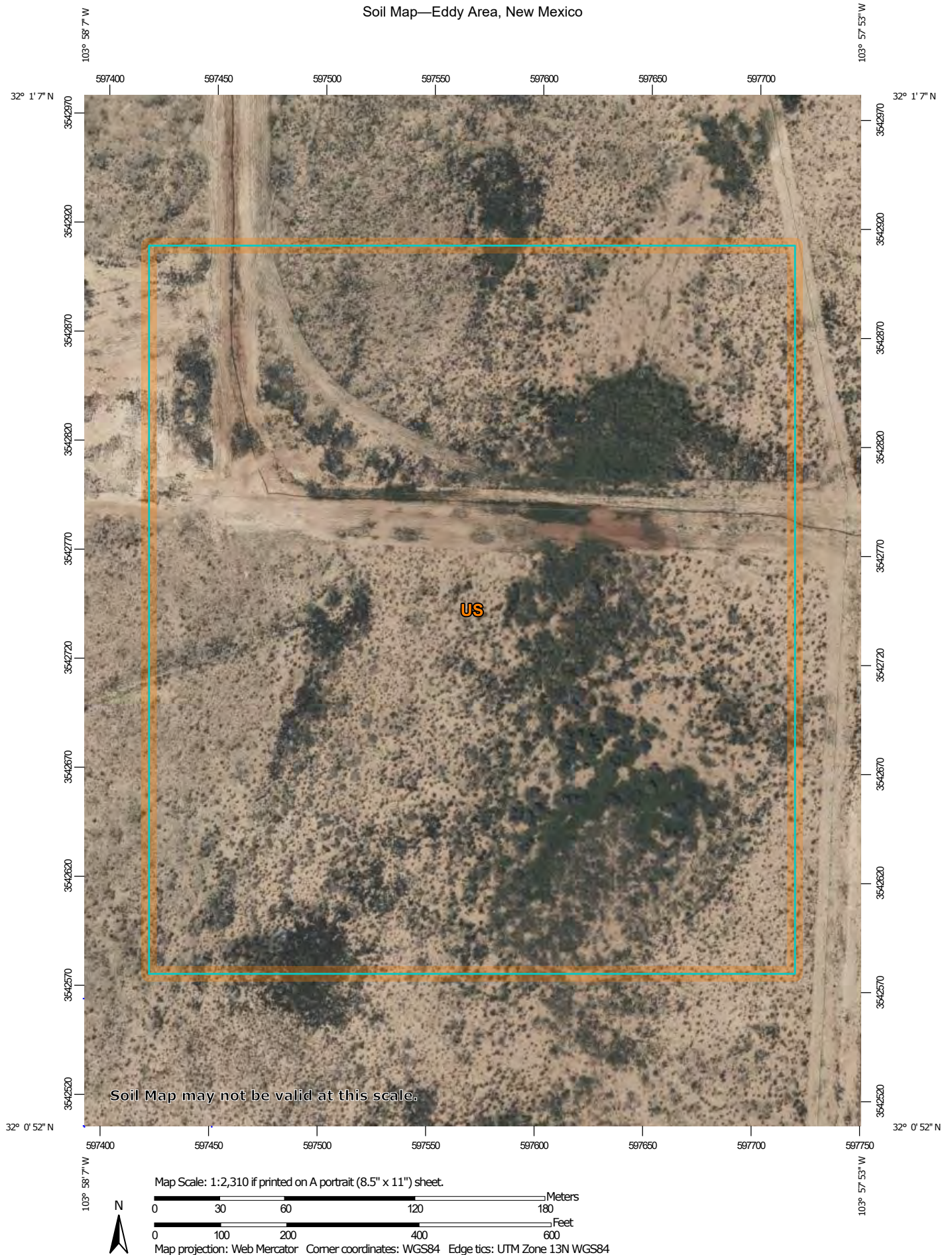
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/24/2023 at 12:22 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Soil Map—Eddy Area, New Mexico



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

11/19/2022
Page 1 of 3

Soil Map—Eddy Area, New Mexico

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

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

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

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

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 18, Sep 8, 2022

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

Date(s) aerial images were photographed: Mar 20, 2020—Mar 22, 2020

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

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
US	Upton-Simona complex, 1 to 15 percent slopes, eroded	24.7	100.0%
Totals for Area of Interest		24.7	100.0%

Map Unit Description: Upton-Simona complex, 1 to 15 percent slopes, eroded---Eddy Area,
New Mexico

Eddy Area, New Mexico

US—Upton-Simona complex, 1 to 15 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w66

Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 6 to 14 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Upton and similar soils: 40 percent

Simona and similar soils: 35 percent

Minor components: 25 percent

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

Description of Upton

Setting

Landform: Ridges, fans

Landform position (three-dimensional): Side slope, rise

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam

H2 - 9 to 13 inches: gravelly loam

H3 - 13 to 21 inches: cemented

H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 1 to 15 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 75 percent

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

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Map Unit Description: Upton-Simona complex, 1 to 15 percent slopes, eroded---Eddy Area,
New Mexico

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Description of Simona

Setting

Landform: Plains, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 6 inches: gravelly fine sandy loam
H2 - 6 to 20 inches: gravelly fine sandy loam
H3 - 20 to 24 inches: indurated

Properties and qualities

Slope: 1 to 5 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
*Capacity of the most limiting layer to transmit water (Ksat): Very low
to moderately low (0.00 to 0.06 in/hr)*
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
*Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0
mmhos/cm)*
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: R070BD002NM - Shallow Sandy
Hydric soil rating: No

Minor Components

Rock outcrop

Percent of map unit: 9 percent
Hydric soil rating: No

Dune land

Percent of map unit: 8 percent
Hydric soil rating: No

Pajarito

Percent of map unit: 8 percent
Ecological site: R070BD003NM - Loamy Sand

Map Unit Description: Upton-Simona complex, 1 to 15 percent slopes, eroded---Eddy Area,
New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 18, Sep 8, 2022

Ecological site R070BC025NM Shallow

Accessed: 11/20/2022

General information

Provisional. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

Figure 1. Mapped extent

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

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs on knolls, ridges, hillslopes alluvial fans and escarpments. Slopes range from 0 to 25 percent and average about 7 percent. Direction of slope varies and is usually not significant. Elevations range from 2,842 to 4,500 feet.

Table 2. Representative physiographic features

Landforms	(1) Hill (2) Ridge (3) Fan piedmont
Flooding frequency	None
Ponding frequency	None
Elevation	866–1,372 m
Slope	0–25%
Aspect	Aspect is not a significant factor

Climatic features

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

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

The average frost-free season is 180 to 220 days. The last killing frost is late March or early April, and the first killing frost is in late October or early November.

Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Because of the shallow soil depth, the vegetation on this site can take advantage of moisture almost anytime it falls. Strong winds that blow from the west and southwest blow from January through June, which accelerates soil drying at a critical time for cool season plant growth.

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

Table 3. Representative climatic features

Frost-free period (average)	220 days
Freeze-free period (average)	240 days
Precipitation total (average)	330 mm

Influencing water features

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

Soil features

The soils of this site are shallow to very shallow. Soils are derived from mixed calcareous eolian deposits derived from sedimentary rock. Surface layers are very cobbly loam, very gravelly loam, gravelly loam, cobbly loam, gravelly fine sandy loam or gravelly sandy loam.

There is an indurated caliche layer or limestone bedrock that occurs within 20 inches and averages less than 10 inches. Limestone or caliche layer may be the restrictive layer.

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

Characteristic soils:

Lozier
Potter
Tencee
Upton
Ector
Kimbrough

Table 4. Representative soil features

Surface texture	(1) Gravelly loam (2) Extremely gravelly loam (3) Extremely cobbly loam
Family particle size	(1) Loamy
Drainage class	Well drained
Permeability class	Very slow to moderately slow
Soil depth	10–51 cm
Surface fragment cover <=3"	15–40%
Available water capacity (0-101.6cm)	2.54 cm
Calcium carbonate equivalent (0-101.6cm)	15–60%

Electrical conductivity (0-101.6cm)	0–2 mmhos/cm
Sodium adsorption ratio (0-101.6cm)	0–1
Soil reaction (1:1 water) (0-101.6cm)	7.4–8.4
Subsurface fragment volume <=3" (Depth not specified)	13–42%
Subsurface fragment volume >3" (Depth not specified)	0–1%

Ecological dynamics

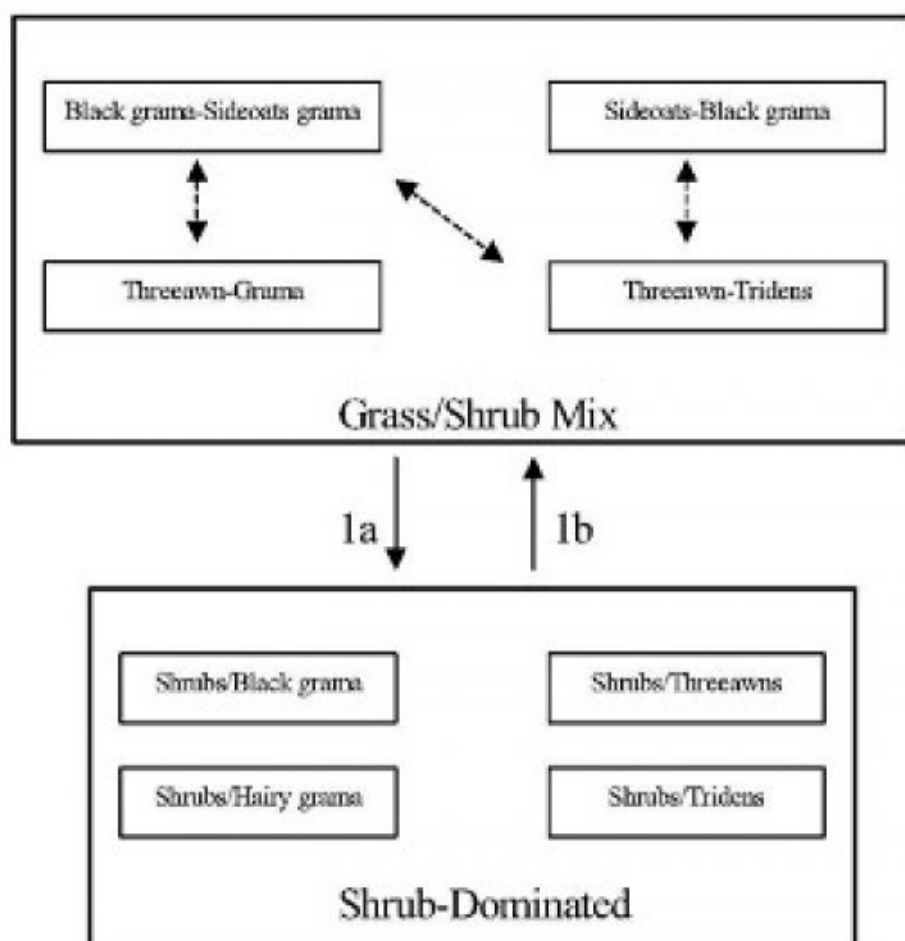
Overview:

The Shallow site is associated with and Limestone Hills, Loamy, and Shallow Sandy sites. When associated with Limestone Hills, the Shallow site occurs on the summits, foot slopes and toeslopes of hills. Loamy sites often occur as areas between low elongated hills with rounded crests (Shallow site). When the Shallow Sandy site and Shallow site occur in association, the Shallow Sandy soils occupy the tops of low ridges and the Shallow site soils occur on the steeper sideslopes of the ridge. The historic plant community of the Shallow site has the aspect of a grassland/shrub mix, dominated by grasses, but with shrubs common throughout the site. Black grama is the dominant grass species; creosotebush, mesquite, and catclaw mimosa are common shrubs. Overgrazing and or extended drought can reduce grass cover, effect a change in grass species dominance, and may result in a shrub-dominated state. 1

State and transition model

Plant Communities and Transitional Pathways (diagram)

MLRA-42, SD-3, Shallow



1a. Extended drought, overgrazing, no fire

1b. Brush control, Prescribed grazing

State 1

Grass/Shrub Mix

Community 1.1

Grass/Shrub Mix

Grassland/Shrub Mix: The historic plant community is dominated by black grama with sideoats grama as the sub-dominant. Blue grama, hairy grama, bush muhly, and sand dropseed also occur in significant amounts. Sideoats grama can occur as the dominant grass with black grama as sub-dominant on the western side of the Land Resource Unit SD-3. This may be due to higher average elevation on the west side. Retrogression within this state due to extended drought or overgrazing will cause a decrease in species such as black grama, sideoats grama, blue grama, and bush muhly. Threeawns may become the dominant grass species due to a decline in more palatable grasses or because of its ability to quickly recover following drought. Continued loss of grass cover and associated increase in amount of bare ground may result in a shrub-dominated state. Decreased fire frequencies may also be

an important component in the cause of this transition. Diagnosis: Grass cover is fairly uniform, however, surface gravel, cobble, and bare ground make up a large percent of total ground cover, and grass production during unfavorable years may only average 150-175 pounds per acre. Shrubs are common with canopy cover averaging five to ten percent. Evidence of erosion such as rills and gullies are rare, but may occur on slopes greater than eight percent.

Table 5. Annual production by plant type

Plant Type	Low (Kg/Hectare)	Representative Value (Kg/Hectare)	High (Kg/Hectare)
Grass/Grasslike	188	395	601
Shrub/Vine	71	147	224
Forb	22	47	72
Total	281	589	897

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	5-10%
Grass/grasslike foliar cover	10-15%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	5-8%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	40-60%

**Figure 5. Plant community growth curve (percent production by month).
NM2825, R042XC025NM Shallow HCPC. R042XC025NM Shallow HCPC Warm
Season Plant Community.**

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

State 2 Shrub-Dominated

Community 2.1 Shrub-Dominated

Shrub-Dominated: This state is characterized by an increase in shrubs and a decrease in grass cover relative to grassland/shrub mix. As grass cover decreases shrubs increase, especially creosotebush, catclaw mimosa, whitethorn acacia, and mesquite. Each of these shrub species may become dominant in localized areas or across the site, depending on the spatial variability in soil characteristics and landscape position. Black grama, threeawns, hairy grama, or hairy tridens may be the dominant grass species. Fluffgrass, burrograss and broom snakeweed increase in representation. The Shallow site is resistant to state change, due to the natural rock armor of the soil and a shallow impermeable layer. The amount of rock fragments on the soil surface assist in retarding erosion. On Shallow sites with low slope, the shallow depth to either a petrocalcic layer or limestone bedrock helps to keep water perched and available to shallow rooted grasses for extended periods. 2 Diagnosis: Shrubs are the dominant species, especially creosotebush, catclaw mimosa, whitethorn acacia, or mesquite. Grass cover is variable ranging

from patchy with large connected bare areas present to sparse with only a limited amount in shrub inter-spaces. Transition to Shrub-Dominated (1a) Overgrazing and or extended periods of drought, and suppression of natural fire regimes are thought to cause this transition. As grass cover is lost, soil fertility and available soil moisture decline, due to the reduction of organic matter and decreased infiltration.³ Shrubs have the ability to extract nutrients and water from a greater area of soil than grasses and are better able to utilize limited water. Competition by shrubs for water and nutrients limits grass recruitment and establishment. Fire historically may have played a part in suppressing shrub expansion; fire suppression may therefore facilitate shrub expansion. Key indicators of approach to transition: *Decrease or change in composition or distribution of grass cover. *Increase in size and frequency of bare patches. *Increase in amount of shrub seedlings. Transition back to Grassland/Shrub Mix (1b) Brush control is necessary to re-establish grasses. Prescribed grazing will help to ensure proper forage utilization and sustain grass cover. Once the transition is reversed and grass cover is re-established, periodic use of prescribed fire may assist in maintaining the Grassland/Shrub state.

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Kg/Hectare)	Foliar Cover (%)
Grass/Grasslike					
1				118–177	
	black grama	BOER4	<i>Bouteloua eriopoda</i>	118–177	–
2				89–118	
	sideoats grama	BOCU	<i>Bouteloua curtipendula</i>	89–118	–
3				89–118	
	blue grama	BOGR2	<i>Bouteloua gracilis</i>	89–118	–
	hairy grama	BOHI2	<i>Bouteloua hirsuta</i>	89–118	–
4				29–59	
	bush muhly	MUPO2	<i>Muhlenbergia porteri</i>	29–59	–
5				18–29	
	cane bluestem	BOBA3	<i>Bothriochloa barbinodis</i>	18–29	–
6				29–59	
	sand dropseed	SPCR	<i>Sporobolus cryptandrus</i>	29–59	–
7				18–29	
	hairy woollygrass	ERPI5	<i>Erioneuron pilosum</i>	18–29	–
8				6–18	
	ear muhly	MUAR	<i>Muhlenbergia arenacea</i>	6–18	–
9				6–18	
	New Mexico feathergrass	HENE5	<i>Hesperostipa neomexicana</i>	6–18	–
10				6–18	
	low woollygrass	DAPU7	<i>Dasyochloa pulchella</i>	6–18	–
11				18–29	
	Grass, perennial	2GP	<i>Grass, perennial</i>	18–29	–
Forb					
12				12–29	
	stemless four-nerve daisy	TEACE	<i>Tetrameuris acaulis</i> var. <i>epunctata</i>	12–29	–
13				6–18	
	woolly groundsel	PACA15	<i>Packera cana</i>	6–18	–

14				6-18	
	globemallow	SPHAE	<i>Sphaeralcea</i>	6-18	—
15				6-18	
	bladderpod	LESQU	<i>Lesquerella</i>	6-18	—
16				6-18	
	cassia	CASSI	<i>Cassia</i>	6-18	—
17				12-29	
	Forb (herbaceous, not grass nor grass-like)	2FORB	<i>Forb (herbaceous, not grass nor grass-like)</i>	12-29	—
Shrub/Vine					
18				6-18	
	littleleaf sumac	RHMI3	<i>Rhus microphylla</i>	6-18	—
19				6-18	
	creosote bush	LATR2	<i>Larrea tridentata</i>	6-18	—
20				6-18	
	littleleaf ratany	KRER	<i>Krameria erecta</i>	6-18	—
21				6-18	
	javelina bush	COER5	<i>Condalia ericoides</i>	6-18	—
22				6-18	
	American tarwort	FLCE	<i>Flourensia cernua</i>	6-18	—
23				6-18	
	crown of thorns	KOSP	<i>Koeberlinia spinosa</i>	6-18	—
24				12-29	
	honey mesquite	PRGL2	<i>Prosopis glandulosa</i>	12-29	—
	honey mesquite	PRGL2	<i>Prosopis glandulosa</i>	12-29	—
25				6-18	
	catclaw mimosa	MIACB	<i>Mimosa aculeaticarpa var. biuncifera</i>	6-18	—
26				6-18	
	pricklypear	OPUNT	<i>Opuntia</i>	6-18	—
27				12-29	
	mariola	PAIN2	<i>Parthenium incanum</i>	12-29	—
	mariola	PAIN2	<i>Parthenium incanum</i>	12-29	—
28				6-18	
	broom snakeweed	GUSA2	<i>Gutierrezia sarothrae</i>	6-18	—
29				18-29	
	Shrub (>.5m)	2SHRUB	<i>Shrub (>.5m)</i>	18-29	—

Animal community

This site provides habitats which support a resident animal community that is characterized by desert cottontail, spotted ground squirrel, Merriam's kangaroo rat, cactus mouse, white-throated woodrat, gray fox, spotted skunk, roadrunner, Swainson's hawk, white-necked raven, cactus wren, pyrrhuloxia, lark sparrow, mourning dove, scaled quail, leopard lizard, round-tailed horned lizard, prairie rattlesnake, marbled whiptail, and greater earless lizard. Where associated with limestone hills, mule deer utilize this site.

Where large woody shrubs occur, most resident birds and scissor-tailed flycatcher, morning dove, lark sparrow and

Swainson's hawk nest.

Hydrological functions

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

Hydrologic Interpretations

Soil Series----- Hydrologic Group

Lozier----- D

Potter----- C

Tencee----- D

Upton----- C

Kimbrough----- D

Upton----- D

Ector----- D

Recreational uses

This site offers recreation potential for hiking, horseback riding, rock hunting, nature photography and bird hunting and birding. During years of abundant spring moisture, a colorful array of wild flowers is displayed during May and June. A few summer and fall flowers also occur.

Wood products

This site has no potential for wood production.

Other products

This site is suited for grazing by all kinds and classes of livestock during all seasons of the year. Missmanagement will cause a decrease in black grama, sideoats grama, and blue grama, bush muhly and New Mexico feathergrass. A corresponding increase in bare ground will occur. There will also be an increase in muhlys, fluffgrass, creosotebush, javalinabush, catclaw, and mesquite. This site will respond best to a system of management that rotates the season of use.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index----- Ac/AUM

100 - 76----- 3.7 – 4.5

75 – 51----- 4.3 – 5.5

50 – 26----- 5.3 – 10.0

25 – 0----- 10.1 +

Inventory data references

Data collection for this site was done in conjunction with the progressive soil surveys within the Southern Desertic Basins, Plains and Mountains, Major Land Resource Areas of New Mexico (SD-3). This site has been mapped and correlated with soils in the following soil surveys. Eddy County, Lea County, and Chaves County.

Other references

Literature Cited:

1. Humphrey, R.R. 1974. Fire in the deserts and desert grassland of North America. In: Kozlowski, T. T.; Ahlgren, C. E., eds. Fire and ecosystems. New York: Academic Press: 365-400.

2. Hennessy, J.T., R.P. Gibbens, J.M. Tromble, and M. Cardenas. 1983. Water properties of caliche. J. Range Manage. 36: 723-726.

3. U.S. Department of Agriculture, Natural Resources Conservation Service. 2001. Soil Quality Information Sheets. Rangeland Soil Quality—Infiltration, Organic Matter, Rangeland Sheets 5,6. [Online]. Available: <http://www.statlab.iastate.edu/survey/SQL/range.html>

Contributors

David Trujillo
Don Sylvester

Rangeland health reference sheet

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

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

Indicators

1. Number and extent of rills:

2. Presence of water flow patterns:

3. Number and height of erosional pedestals or terracettes:

4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):

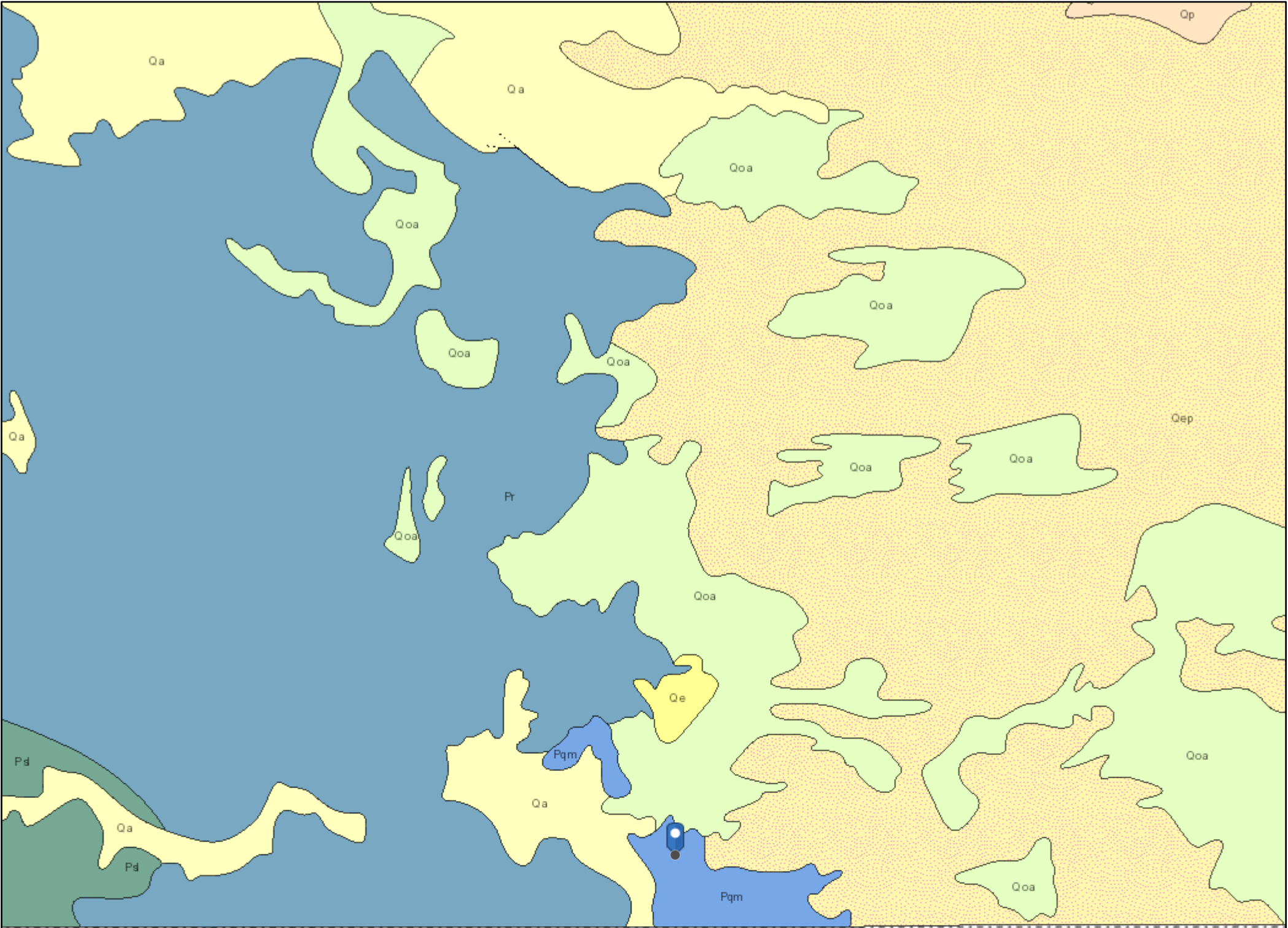
5. Number of gullies and erosion associated with gullies:

6. Extent of wind scoured, blowouts and/or depositional areas:

7. Amount of litter movement (describe size and distance expected to travel):

-
8. **Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):**
-
9. **Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):**
-
10. **Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:**
-
11. **Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):**
-
12. **Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):**
- Dominant:
- Sub-dominant:
- Other:
- Additional:
-
13. **Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):**
-
14. **Average percent litter cover (%) and depth (in):**
-
15. **Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production):**
-
16. **Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:**
-
17. **Perennial plant reproductive capability:**
-

East Pecos Pipeline Spill

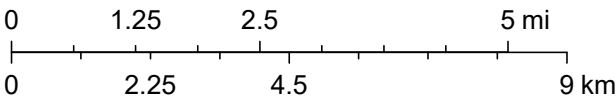


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Lithologic Units

- Playa—Alluvium and evaporite deposits (Holocene)
- Water—Perennial standing water
- Qa—Alluvium (Holocene to upper Pleistocene)

1:144,448



Esri, NASA, NGA, USGS, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census

ATTACHMENT 2

Client Name: Devon Energy Production Company, LP

Site Name: East Pecos Pipeline Spill

NMOCD Tracking #: nAPP223339274

Project #: 22E-03982

Lab Reports: 2212E44, 2301065, 2301068, 2301135, 2301226, 2301272, 2301981, 2302198, 2302264, 2302A68, 2303967, and 2303A37

Table 2. Initial Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater 51-100 feet bgs

Sample Description			Field Screening			Petroleum Hydrocarbons								Inorganic	
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (petroflag)	Chloride Concentration	Volatile		Extractable					Total Petroleum Hydrocarbons (TPH)		Chloride Concentration
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)				
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		
BH22-01	0	December 28, 2022	-	-	28,871	ND	ND	ND	5100	3700	5100	8800	63000		
	2	December 28, 2022	-	-	9,144	-	-	-	-	-	-	-	-		
	4	December 28, 2022	-	-	7,802	ND	ND	ND	ND	ND	ND	ND	69000		
	6	December 28, 2022	-	-	15,752	-	-	-	-	-	-	-	-		
	8	December 28, 2022	-	-	19,203	ND	ND	ND	ND	ND	ND	ND	17000		
	10	December 28, 2022	-	-	17,572	-	-	-	-	-	-	-	-		
	12	December 28, 2022	-	-	15,408	-	-	-	-	-	-	-	-		
BH22-02	16	December 28, 2022	-	-	19,187	ND	ND	ND	ND	ND	ND	ND	17000		
	0	December 28, 2022	-	-	28,858	ND	ND	ND	1300	880	1300	2180	71000		
	4	December 28, 2022	-	-	13,956	ND	ND	ND	ND	ND	ND	ND	13000		
	8	December 28, 2022	-	-	15,509	ND	ND	ND	ND	ND	ND	ND	17000		
	12	December 28, 2022	-	-	16,592	-	-	-	-	-	-	-	-		
BH22-03	16	December 28, 2022	-	-	12,162	ND	ND	ND	ND	ND	ND	ND	13000		
	0	December 28, 2022	-	-	28,871	ND	ND	ND	3100	1700	3100	4800	48000		
	4	December 28, 2022	-	-	15,333	ND	ND	ND	86	54	86	140	15000		
	8	December 28, 2022	-	-	13,146	ND	ND	ND	ND	ND	ND	ND	9500		
	12	December 28, 2022	-	-	7,728	-	-	-	-	-	-	-	-		
BH22-04	16	December 28, 2022	-	-	7,531	ND	ND	ND	ND	ND	ND	ND	9800		
	0	December 29, 2022	-	-	19,796	ND	ND	ND	31000	17000	31000	48000	48000		
	4	December 29, 2022	-	-	5,614	ND	ND	ND	ND	ND	ND	ND	13000		
	8	December 29, 2022	-	-	13,813	ND	ND	ND	ND	ND	ND	ND	15000		
	12	December 29, 2022	-	-	14,805	-	-	-	-	-	-	-	-		
BH22-05	16	December 29, 2022	-	-	14,284	ND	ND	1100	5900	1600	7000	8600	9000		
	0	December 29, 2022	-	-	19,190	ND	ND	ND	490	380	490	870	17000		
	4	December 29, 2022	-	-	1,623	ND	ND	ND	ND	ND	ND	ND	950		
	8	December 29, 2022	-	-	15,944	ND	ND	ND	ND	ND	ND	ND	17000		
	12	December 29, 2022	-	-	15,348	-	-	-	-	-	-	-	-		
BH22-06	14	December 29, 2022	-	-	4,527	-	-	-	-	-	-	-	-		
	0	December 29, 2022	-	-	29,148	0.22	0.73	ND	16000	10000	16000	26000	56000		
	4	December 29, 2022	-	-	14,004	ND	ND	ND	25	ND	25	25	19000		
	8	December 29, 2022	-	-	7,736	ND	ND	ND	ND	ND	ND	ND	9400		
	12	December 29, 2022	-	-	4,383										
BH22-07	16	December 29, 2022	-	-	7,353	ND	ND	ND	ND	ND	ND	ND	6800		
	0	December 29, 2022	-	-	7,795	-	-	-	-	-	-	-	-		
	0	February 3, 2023	-	-	-	ND	ND	ND	2700	1200	2700	6600	13000		
	2	February 3, 2023	-	-	-	ND	ND	ND	ND	100	ND	100	9700		
	4	December 29, 2022	-	-	10,361	-	-	-	-	-	-	-	-		
BH22-08	4	February 3, 2023	-	-	-	ND	ND	ND	ND	ND	ND	ND	10000		
	8	December 29, 2022	-	-	11,338	-	-	-	-	-	-	-	-		
	0	January 1, 2023	-	-	13,021	ND	ND	ND	1800	840	1800	2640	13000		
	2	January 1, 2023	-	-	15,402	ND	ND	ND	ND	ND	ND	ND	12000		
	4	January 1, 2023	-	64	12,714	ND	ND	ND	ND	ND	ND	ND	9700		
BH22-09	0	January 1, 2023	-	-	13,222	ND	ND	ND	7300	4100	7300	11400	13000		
	2	January 1, 2023	-	-	11,635	ND	ND	ND	ND	ND	ND	ND	10000		
	4	January 1, 2023	-	206	10,932	ND	ND	ND	ND	130	130	130	9000		
BH22-10	0	January 1, 2023	-	-	6,108	ND	0.534	37	17000	8600	17037	25637	6400		
	2	January 1, 2023	-	-	16,706	ND	ND	ND	ND	ND	ND	ND	13000		
	4	January 1, 2023	-	67	13,656	ND	ND	ND	ND	ND	ND	ND	11000		
BH22-11	0	January 1, 2023	-	-	12,611	ND	ND	ND	5400	3300	5400	8700	10000		
	2	January 1, 2023	-	-	11,019	ND	ND	ND	ND	ND	ND	ND	9400		
	4	January 1, 2023	-	69	11,332	ND	ND	ND	ND	ND	ND	ND	9700		
BH22-12	0	December 22, 2022	-	-	10,016	ND	ND	ND	190	130	190	320	13000		
	2	December 22, 2022	-	-	13,105	ND	ND	ND	ND	ND	ND	ND	9300		
	4	December 22, 2022	-	29	11,263	ND	ND	ND	ND	ND	ND	ND	11000		
BH22-13	0	January 1, 2023	-	-	11,299	ND	ND	ND	18000	9700	18000	27700	9700		
	2	January 1, 2023	-	-	15,662	ND	ND	ND	130	81	130	211	13000		
	4	January 1, 2023	-	100	15,594	ND	ND	ND	19	ND	19	19	12000		
BH22-14	0	January 1, 2023	-	-	8,564	ND	4.9	99	23000	11000	23099	34099	11000		
	2	January 1, 2023	-	-	16,494	ND	2.85	71	5600	2300	5671	7971	16000		
	4	January 1, 2023	-	1,236	16,825	ND	3.67	67	5300	2400	5367	7767	19000		
BH22-15	0	January 1, 2023	-	-	6,647	ND	ND	ND	810	650	810	1460	5900		
	2	January 1, 2023	-	-	19,689	ND	ND	ND	ND	ND	ND	ND	18000		
	4	January 1, 2023	-	54	19,275	ND	ND	ND	ND	ND	ND	ND	17000		
BH22-16	0	December 22, 2022	-	-	15,397	ND	ND	ND	ND	ND	ND	ND	15000		
	2	December 22, 2022	-	-	16,638	ND	ND	ND	ND	ND	ND	ND	16000		
	4	December 22, 2022	-	31	13,467	ND	ND	ND	ND	ND	ND	ND	17000		

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						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)		
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
BH22-17	0	January 1, 2023	-	-	4,435	ND	ND	ND	730	660	730	1390	3300	
	2	January 1, 2023	-	-	1,046	ND	ND	ND	ND	ND	ND	ND	670	
	4	January 1, 2023	-	49	1,628	ND	ND	ND	ND	ND	ND	ND	1100	
BH22-18	0	December 22, 2022	-	-	14,844	ND	ND	ND	ND	ND	ND	ND	17000	
	2	December 22, 2022	-	-	16,172	ND	ND	ND	ND	ND	ND	ND	14000	
	4	December 22, 2022	-	25	17,982	ND	ND	ND	ND	ND	ND	ND	20000	
	8	December 30, 2022	-	-	9,564	-	-	-	-	-	-	-	-	
	12	December 30, 2022	-	-	11,520	-	-	-	-	-	-	-	-	
	16	December 30, 2022	-	-	7,642	-	-	-	-	-	-	-	-	
BH22-19	0	December 22, 2022	-	-	4,938	ND	ND	ND	ND	ND	ND	ND	3800	
	2	December 22, 2022	-	-	17,667	ND	ND	ND	ND	ND	ND	ND	20000	
	4	December 22, 2022	-	0	17,183	ND	ND	ND	ND	ND	ND	ND	14000	
BH22-20	0	December 22, 2022	-	-	2,009	ND	ND	ND	ND	ND	ND	ND	1200	
	2	December 22, 2022	-	-	12,563	ND	ND	ND	ND	ND	ND	ND	13000	
	4	December 22, 2022	-	189	13,282	ND	ND	ND	ND	ND	ND	ND	12000	
BH22-21	0	December 22, 2022	-	-	1,319	ND	ND	ND	ND	ND	ND	ND	690	
	2	December 22, 2022	-	-	17,224	ND	ND	ND	ND	ND	ND	ND	17000	
	4	December 22, 2022	-	62	12,311	ND	ND	ND	ND	ND	ND	ND	14000	
BH22-22	0	December 22, 2022	-	-	626	ND	ND	ND	ND	ND	ND	ND	240	
	2	December 22, 2022	-	-	350	ND	ND	ND	ND	ND	ND	ND	ND	
	4	December 22, 2022	-	15	331	ND	ND	ND	ND	ND	ND	ND	ND	
BH22-23	0	December 22, 2022	-	-	8,093	ND	ND	ND	ND	ND	ND	ND	6900	
	2	December 22, 2022	-	-	13,346	ND	ND	ND	ND	ND	ND	ND	11000	
	4	December 22, 2022	-	20	9,131	ND	ND	ND	ND	ND	ND	ND	8700	
BH22-24	0	December 22, 2022	-	-	850	ND	ND	ND	ND	ND	ND	ND	280	
	2	December 22, 2022	-	-	1,023	ND	ND	ND	ND	ND	ND	ND	310	
	4	December 22, 2022	-	8	180	ND	ND	ND	ND	ND	ND	ND	ND	
BH22-25	0	December 22, 2022	-	-	8,994	ND	ND	ND	ND	ND	ND	ND	8100	
	2	December 22, 2022	-	-	13,750	ND	ND	ND	ND	ND	ND	ND	12000	
	4	December 22, 2022	-	40	10,065	ND	ND	ND	ND	ND	ND	ND	10000	
BH22-26	0	December 22, 2022	-	-	314	ND	ND	ND	ND	ND	ND	ND	ND	
	2	December 22, 2022	-	-	295	ND	ND	ND	ND	ND	ND	ND	ND	
	4	December 22, 2022	-	12	177	ND	ND	ND	ND	ND	ND	ND	ND	
BH22-27	0	December 22, 2022	-	-	2,297	ND	ND	ND	ND	ND	ND	ND	1500	
	2	December 22, 2022	-	-	9,769	ND	ND	ND	ND	ND	ND	ND	14000	
	4	December 22, 2022	-	25	12,532	ND	ND	ND	ND	ND	ND	ND	12000	
BH22-28	0	December 22, 2022	-	-	1,342	ND	ND	ND	ND	ND	ND	ND	960	
	2	December 22, 2022	-	-	10,486	ND	ND	ND	ND	ND	ND	ND	10000	
	4	December 22, 2022	-	16	12,537	ND	ND	ND	ND	ND	ND	ND	11000	
BH22-29	0	December 22, 2022	-	-	730	ND	ND	ND	ND	ND	ND	ND	250	
	2	December 22, 2022	-	-	10,648	ND	ND	ND	ND	ND	ND	ND	11000	
	4	December 22, 2022	-	22	11,296	ND	ND	ND	ND	ND	ND	ND	10000	
BH22-30	0	December 22, 2022	-	-	317	ND	ND	ND	ND	ND	ND	ND	ND	
	2	December 22, 2022	-	-	171	ND	ND	ND	ND	ND	ND	ND	ND	
	4	December 22, 2022	-	10	469	ND	ND	ND	ND	ND	ND	ND	120	
BH22-31	0	December 22, 2022	-	-	1,212	ND	ND	ND	ND	ND	ND	ND	680	
	2	December 22, 2022	-	-	8,753	ND	ND	ND	ND	ND	ND	ND	9300	
	4	December 22, 2022	-	22	11,015	ND	ND	ND	ND	ND	ND	ND	10000	
BH22-32	0	December 22, 2022	-	-	193	ND	ND	ND	ND	ND	ND	ND	ND	
	2	December 22, 2022	-	-	184	ND	ND	ND	ND	ND	ND	ND	ND	
	4	December 22, 2022	-	13	277	ND	ND	ND	ND	ND	ND	ND	ND	
BH22-33	0	December 22, 2022	-	-	320	ND	ND	ND	ND	ND	ND	ND	ND	
	2	December 22, 2022	-	-	9,482	ND	ND	ND	ND	ND	ND	ND	9900	
	4	December 22, 2022	-	18	9,457	ND	ND	ND	ND	ND	ND	ND	9400	
BH22-34	0	December 22, 2022	-	-	245	ND	ND	ND	ND	ND	ND	ND	ND	
	2	December 22, 2022	-	-	168	ND	ND	ND	ND	ND	ND	ND	ND	
	4	December 22, 2022	-	12	278	ND	ND	ND	ND	ND	ND	ND	ND	
BH22-35	0	December 22, 2022	-	-	213	ND	ND	ND	ND	ND	ND	ND	67	
	2	December 22, 2022	-	-	216	ND	ND	ND	ND	ND	ND	ND	ND	
	4	December 22, 2022	-	6	577	ND	ND	ND	ND	ND	ND	ND	130	
BH22-36	0	December 22, 2022	-	-	274	ND	ND	ND	ND	ND	ND	ND	ND	
	2	December 22, 2022	-	-	163	ND	ND	ND	ND	ND	ND	ND	ND	
	4	December 22, 2022	-	5	163	ND	ND	ND	ND	ND	ND	ND	ND	
BH22-37	0	December 22, 2022	-	-	353	ND	ND	ND	ND	ND	ND	ND	ND	
	2	December 22, 2022	-	-	1,838	ND	ND	ND	ND	ND	ND	ND	1800	
	4	December 22, 2022	-	14	681	ND	ND	ND	ND	ND	ND	ND	180	

Client Name: Devon Energy Production Company, LP

Site Name: East Pecos Pipeline Spill

NMOCD Tracking #: nAPP2233339274

Project #: 22E-03982

Lab Reports: 2212E44, 2301065, 2301068, 2301135, 2301226, 2301272, 2301981, 2302198, 2302264, 2302A68, 2303967, and 2303A37

Table 2. Initial Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater 51-100 feet bgs

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic	
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (petroFlag)	Chloride Concentration	Volatile		Extractable						Chloride Concentration
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)		
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
BH22-38	0	December 31, 2022	-	-	96	ND	ND	ND	ND	ND	ND	ND	ND	
	2	December 31, 2022	-	-	119	ND	ND	ND	ND	ND	ND	ND	ND	
	4	December 31, 2022	-	12	119	ND	ND	ND	ND	ND	ND	ND	ND	
BH22-39	0	December 31, 2022	-	-	64	ND	ND	ND	ND	ND	ND	ND	ND	
	2	December 31, 2022	-	-	375	ND	ND	ND	ND	ND	ND	ND	99	
	4	December 31, 2022	-	43	6,591	ND	ND	ND	ND	ND	ND	ND	4800	
BH22-40	0	December 30, 2022	-	-	28,932	ND	ND	ND	2100	1500	2100	3600	39000	
	2	December 30, 2022	-	-	13,727	0.076	0.886	ND	ND	ND	ND	ND	19000	
	4	December 30, 2022	-	-	17,579	ND	ND	ND	ND	ND	ND	ND	17000	
BH22-41	0	December 31, 2022	-	-	50	ND	ND	ND	ND	ND	ND	ND	110	
	2	December 31, 2022	-	-	1,412	ND	ND	ND	ND	ND	ND	ND	890	
	4	December 31, 2022	-	40	2,235	ND	ND	ND	ND	ND	ND	ND	1600	
BH22-42	0	December 31, 2022	-	-	5,177	ND	ND	ND	ND	ND	ND	ND	2700	
	2	December 31, 2022	-	-	13,530	ND	ND	ND	ND	ND	ND	ND	9800	
	4	December 31, 2022	-	49	1,489	ND	ND	ND	ND	ND	ND	ND	1100	
BH22-43	0	January 2, 2023	-	-	386	ND	ND	ND	ND	ND	ND	ND	120	
	2	January 2, 2023	-	-	521	ND	ND	ND	ND	ND	ND	ND	97	
	4	January 2, 2023	-	13	564	ND	ND	ND	ND	ND	ND	ND	99	
BH22-44	0	January 2, 2023	-	-	180	ND	ND	ND	ND	ND	ND	ND	ND	
	2	January 2, 2023	-	-	681	ND	ND	ND	ND	ND	ND	ND	280	
	4	January 2, 2023	-	26	695	ND	ND	ND	ND	ND	ND	ND	340	
BH22-45	0	January 2, 2023	-	-	101	ND	ND	ND	ND	ND	ND	ND	ND	
	2	January 2, 2023	-	-	150	ND	ND	ND	ND	ND	ND	ND	ND	
	4	January 2, 2023	-	9	98	ND	ND	ND	ND	ND	ND	ND	ND	
BH22-46	0	December 29, 2022	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	2	December 29, 2022	-	-	47	ND	ND	ND	ND	ND	ND	ND	ND	
	4	December 29, 2022	-	19	ND	ND	ND	ND	ND	ND	ND	ND	ND	
BH22-47	0	December 29, 2022	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	2	December 29, 2022	-	-	137	ND	ND	ND	ND	ND	ND	ND	ND	
	4	December 29, 2022	-	31	105	ND	ND	ND	ND	ND	ND	ND	ND	
BH22-48	0	December 29, 2022	-	-	1,955	ND	ND	ND	ND	ND	ND	ND	1800	
	2	December 29, 2022	-	-	5,877	ND	ND	ND	ND	ND	ND	ND	6200	
	4	December 29, 2022	-	38	8,638	ND	ND	ND	ND	ND	ND	ND	9300	
BH22-49	0	December 29, 2022	-	-	10	ND	ND	ND	ND	ND	ND	ND	ND	
	2	December 29, 2022	-	-	66	ND	ND	ND	ND	ND	ND	ND	65	
	4	December 29, 2022	-	17	176	ND	ND	ND	ND	ND	ND	ND	62	
BH22-50	0	December 29, 2022	-	-	236	ND	ND	ND	ND	ND	ND	ND	ND	
	2	December 29, 2022	-	-	285	ND	ND	ND	ND	ND	ND	ND	210	
	4	December 29, 2022	-	16	116	ND	ND	ND	ND	ND	ND	ND	ND	
BH22-51	0	December 29, 2022	-	-	2,186	ND	ND	ND	ND	ND	ND	ND	3600	
	2	December 29, 2022	-	-	4,925	ND	ND	ND	ND	ND	ND	ND	5100	
	4	December 29, 2022	-	50	6,063	ND	ND	ND	ND	ND	ND	ND	5500	
BH22-52	0	December 29, 2022	-	-	246	ND	ND	ND	ND	ND	ND	ND	98	
	2	December 29, 2022	-	-	249	ND	ND	ND	ND	ND	ND	ND	91	
	4	December 29, 2022	-	32	552	ND	ND	ND	ND	ND	ND	ND	470	
BH22-53	0	December 29, 2022	-	-	160	ND	ND	ND	ND	ND	ND	ND	ND	
	2	December 29, 2022	-	-	331	ND	ND	ND	ND	ND	ND	ND	120	
	4	December 29, 2022	-	38	399	ND	ND	ND	ND	ND	ND	ND	210	
BH22-54	0	December 29, 2022	-	-	3,501	ND	ND	ND	ND	ND	ND	ND	3100	
	2	December 29, 2022	-	-	2,287	ND	ND	ND	ND	ND	ND	ND	3800	
	4	December 29, 2022	-	-	1,069	ND	ND	ND	ND	ND	ND	ND	970	
BH22-55	0	December 29, 2022	-	-	457	ND	ND	ND	ND	ND	ND	ND	190	
	2	December 29, 2022	-	-	850	ND	ND	ND	ND	ND	ND	ND	840	
	4	December 29, 2022	-	27	-	ND	ND	ND	ND	ND	ND	ND	200	
BH22-56	0	December 29, 2022	-	-	2,727	ND	ND	ND	ND	ND	ND	ND	3400	
	2	December 29, 2022	-	-	10,943	ND	ND	ND	ND	ND	ND	ND	14000	
	4	December 29, 2022	-	42	15,167	ND	ND	ND	ND	ND	ND	ND	17000	
BH22-57	0	December 31, 2022	-	-	593	ND	ND	ND	ND	ND	ND	ND	270	
	2	December 31, 2022	-	-	665	ND	ND	ND	ND	ND	ND	ND	250	
	4	December 31, 2022	-	33	2,219	ND	ND	ND	ND	ND	ND	ND	980	
BH22-58	0	December 31, 2022	-	-	432	ND	ND	ND	ND	ND	ND	ND	68	
	2	December 31, 2022	-	-	174	ND	ND	ND	ND	ND	ND	ND	ND	
	4	December 31, 2022	-	18	314	ND	ND	ND	ND	ND	ND	ND	82	
BH22-59	0	December 31, 2022	-	-	679	ND	ND	ND	18	ND	18	18	200	
	2	December 31, 2022	-	-	2,186	ND	ND	ND	ND	ND	ND	ND	910	
	4	December 31, 2022	-	27	1,262	ND	ND	ND	ND	ND	ND	ND	460	

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Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic		
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (petroflag)	Chloride Concentration	Volatile		Extractable						Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)				
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		
BH22-60	0	December 31, 2022	-	-	3,168	ND	ND	ND	17	ND	17	17	2300		
	2	December 31, 2022	-	-	135	ND	ND	ND	ND	ND	ND	ND	ND		
	4	December 31, 2022	-	12	155	ND	ND	ND	ND	ND	ND	ND	64		
BH22-61	0	December 21, 2022	-	-	956	ND	ND	ND	ND	ND	ND	ND	560		
	2	December 21, 2022	-	-	10,133	ND	ND	ND	ND	ND	ND	ND	9500		
	4	December 21, 2022	-	22	7,099	ND	ND	ND	ND	ND	ND	ND	7000		
BH22-62	0	December 21, 2022	-	-	535	ND	ND	ND	ND	ND	ND	ND	160		
	2	December 21, 2022	-	-	1,856	ND	ND	ND	ND	ND	ND	ND	1400		
	4	December 21, 2022	-	12	324	ND	ND	ND	ND	ND	ND	ND	96		
BH22-63	0	December 21, 2022	-	-	1,003	ND	ND	ND	ND	ND	ND	ND	530		
	2	December 21, 2022	-	-	368	ND	ND	ND	ND	ND	ND	ND	370		
	4	December 21, 2022	-	9	694	ND	ND	ND	ND	ND	ND	ND	ND		
BH22-64	0	December 21, 2022	-	-	727	ND	ND	ND	ND	ND	ND	ND	410		
	2	December 21, 2022	-	-	705	ND	ND	ND	ND	ND	ND	ND	4200		
	4	December 21, 2022	-	21	9,530	ND	ND	ND	ND	ND	ND	ND	9700		
BH22-65	0	December 21, 2022	-	-	1,197	ND	ND	ND	ND	ND	ND	ND	790		
	2	December 21, 2022	-	-	3,537	ND	ND	ND	ND	ND	ND	ND	9600		
	4	December 21, 2022	-	18	4,283	ND	ND	ND	ND	ND	ND	ND	3000		
BH22-66	0	December 21, 2022	-	-	381	ND	ND	ND	ND	ND	ND	ND	220		
	2	December 21, 2022	-	-	1,746	ND	ND	ND	ND	ND	ND	ND	960		
	4	December 21, 2022	-	17	2,453	ND	ND	ND	ND	ND	ND	ND	2200		
BH22-67	0	December 21, 2022	-	-	3,772	ND	ND	ND	ND	ND	ND	ND	3000		
	2	December 21, 2022	-	-	10,833	ND	ND	ND	ND	ND	ND	ND	11000		
	4	December 21, 2022	-	15	10,243	ND	ND	ND	ND	ND	ND	ND	11000		
BH22-68	0	December 21, 2022	-	-	4,869	ND	ND	ND	ND	ND	ND	ND	4900		
	2	December 21, 2022	-	-	329	ND	ND	ND	ND	ND	ND	ND	67		
	4	December 21, 2022	-	6	411	ND	ND	ND	ND	ND	ND	ND	70		
BH22-69	0	December 21, 2022	-	-	1,212	ND	ND	ND	ND	ND	ND	ND	560		
	2	December 21, 2022	-	-	10,702	ND	ND	ND	ND	ND	ND	ND	9900		
	4	December 21, 2022	-	22	9,957	ND	ND	ND	ND	ND	ND	ND	8300		
BH22-70	0	December 21, 2022	-	-	955	ND	ND	ND	ND	57	ND	57	350		
	2	December 21, 2022	-	-	11,809	ND	ND	ND	ND	ND	ND	ND	9900		
	4	December 21, 2022	-	18	13,780	ND	ND	ND	ND	ND	ND	ND	11000		
BH22-71	0	December 21, 2022	-	-	1,029	ND	ND	ND	ND	84	ND	84	460		
	2	December 21, 2022	-	-	1,063	ND	ND	ND	ND	ND	ND	ND	440		
	4	December 21, 2022	-	13	903	ND	ND	ND	ND	ND	ND	ND	540		
BH22-72	0	December 21, 2022	-	-	2,000	ND	ND	ND	ND	ND	ND	ND	370		
	2	December 21, 2022	-	-	671	ND	ND	ND	ND	ND	ND	ND	260		
	4	December 21, 2022	-	20	691	ND	ND	ND	ND	ND	ND	ND	98		
BH22-73	0	January 3, 2023	-	-	567	ND	ND	ND	ND	ND	ND	ND	70		
	2	January 3, 2023	-	-	655	ND	ND	ND	ND	ND	ND	ND	190		
	4	January 3, 2023	-	1	1,008	ND	ND	ND	ND	ND	ND	ND	560		
BH22-74	0	January 3, 2023	-	-	404	ND	ND	ND	ND	ND	ND	ND	ND		
	2	January 3, 2023	-	-	414	ND	ND	ND	ND	ND	ND	ND	ND		
	4	January 3, 2023	-	0	320	ND	ND	ND	ND	ND	ND	ND	ND		
BH22-75	0	January 3, 2023	-	-	994	ND	ND	ND	ND	ND	ND	ND	680		
	2	January 3, 2023	-	-	597	ND	ND	ND	ND	ND	ND	ND	300		
	4	January 3, 2023	-	4	327	ND	ND	ND	ND	ND	ND	ND	85		
BH22-76	0	January 3, 2023	-	-	4,329	ND	ND	ND	ND	ND	ND	ND	2600		
	2	January 3, 2023	-	-	1,847	ND	ND	ND	ND	ND	ND	ND	1200		
	4	January 3, 2023	-	0	913	ND	ND	ND	ND	ND	ND	ND	340		
BH22-77	0	January 3, 2023	-	-	298	ND	ND	ND	ND	ND	ND	ND	ND		
	2	January 3, 2023	-	-	219	ND	ND	ND	ND	ND	ND	ND	ND		
	4	January 3, 2023	-	0	230	ND	ND	ND	ND	ND	ND	ND	ND		
BH22-78	0	January 3, 2023	-	-	243	ND	ND	ND	ND	ND	ND	ND	ND		
	2	January 3, 2023	-	-	226	ND	ND	ND	ND	ND	ND	ND	ND		
	4	January 3, 2023	-	1	246	ND	ND	ND	ND	ND	ND	ND	ND		
BH22-79	0	January 3, 2023	-	-	215	ND	ND	ND	ND	ND	ND	ND	ND		
	2	January 3, 2023	-	-	253	ND	ND	ND	ND	ND	ND	ND	ND		
	4	January 3, 2023	-	0	245	ND	ND	ND	ND	ND	ND	ND	ND		
BH22-80	0	January 4, 2023	-	-	70	ND	ND	ND	ND	ND	ND	ND	ND		
	2	January 4, 2023	-	-	54	ND	ND	ND	ND	ND	ND	ND	ND		
	4	January 4, 2023	-	12	108	ND	ND	ND	ND	ND	ND	ND	ND		
BH22-81	0	January 4, 2023	-	-	116	ND	ND	ND	ND	ND	ND	ND	ND		
	2	January 4, 2023	-	-	92	ND	ND	ND	ND	ND	ND	ND	ND		
	4	January 4, 2023	-	5	134	ND	ND	ND	ND	ND	ND	ND	ND		

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						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH22-82	0	January 4, 2023	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2	January 4, 2023	-	-	5	ND	ND	ND	ND	ND	ND	ND	ND
	4	January 4, 2023	-	7	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH22-83	0	January 4, 2023	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2	January 4, 2023	-	-	5	ND	ND	ND	ND	ND	ND	ND	ND
	4	January 4, 2023	-	9	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH22-84	0	January 4, 2023	-	-	144	ND	ND	ND	ND	ND	ND	ND	ND
	2	January 4, 2023	-	-	206	ND	ND	ND	ND	ND	ND	ND	ND
	4	January 4, 2023	-	9	262	ND	ND	ND	ND	ND	ND	ND	ND
BH22-85	0	January 4, 2023	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2	January 4, 2023	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4	January 4, 2023	-	18	1,218	ND	ND	ND	ND	ND	ND	ND	1600
BH22-86	0	January 5, 2023	-	-	1,459	ND	ND	ND	ND	ND	ND	ND	ND
	2	January 5, 2023	-	-	427	ND	ND	ND	ND	ND	ND	ND	ND
	4	January 5, 2023	-	10	470	ND	ND	ND	ND	ND	ND	ND	ND
BH22-87	0	January 5, 2023	-	-	157	ND	ND	ND	ND	ND	ND	ND	ND
	2	January 5, 2023	-	-	241	ND	ND	ND	ND	ND	ND	ND	110
	4	January 5, 2023	-	11	155	ND	ND	ND	ND	ND	ND	ND	ND
BH22-88	0	January 5, 2023	-	-	34	ND	ND	ND	ND	ND	ND	ND	ND
	2	January 5, 2023	-	-	27	ND	ND	ND	ND	ND	ND	ND	ND
	4	January 5, 2023	-	0	30	ND	ND	ND	ND	ND	ND	ND	ND
BH22-89	0	January 5, 2023	-	-	43	ND	ND	ND	ND	ND	ND	ND	ND
	2	January 5, 2023	-	-	18	ND	ND	ND	ND	ND	ND	ND	ND
	4	January 5, 2023	-	81	0	ND	ND	ND	ND	ND	ND	ND	ND
BH22-90	0	January 5, 2023	-	-	251	ND	ND	ND	ND	ND	ND	ND	150
	2	January 5, 2023	-	-	157	ND	ND	ND	ND	ND	ND	ND	100
	4	January 5, 2023	-	13	99	ND	ND	ND	ND	ND	ND	ND	110
BH22-91	0	January 5, 2023	-	-	219	ND	ND	ND	ND	ND	ND	ND	ND
	2	January 5, 2023	-	-	248	ND	ND	ND	ND	ND	ND	ND	ND
	4	January 5, 2023	-	19	161	ND	ND	ND	ND	ND	ND	ND	ND
BH22-92	0	January 5, 2023	-	-	80	ND	ND	ND	ND	ND	ND	ND	ND
	2	January 5, 2023	-	-	271	ND	ND	ND	ND	ND	ND	ND	290
	4	January 5, 2023	-	6	272	ND	ND	ND	ND	ND	ND	ND	270
BH22-93	0	January 5, 2023	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2	January 5, 2023	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
	4	January 5, 2023	-	14	1,109	ND	ND	ND	ND	ND	ND	ND	1700
BH22-94	0	January 3, 2023	-	-	294	ND	ND	ND	ND	ND	ND	ND	ND
	2	January 3, 2023	-	-	564	ND	ND	ND	ND	ND	ND	ND	210
	4	January 3, 2023	-	23	1,093	ND	ND	ND	ND	ND	ND	ND	380
BH22-95	0	January 3, 2023	-	-	1,733	ND	ND	ND	ND	ND	ND	ND	1100
	2	January 3, 2023	-	-	544	ND	ND	ND	ND	ND	ND	ND	ND
	4	January 3, 2023	-	14	596	ND	ND	ND	ND	ND	ND	ND	120
BH22-96	0	January 3, 2023	-	-	467	ND	ND	ND	ND	ND	ND	ND	ND
	2	January 3, 2023	-	-	458	ND	ND	ND	ND	ND	ND	ND	100
	4	January 3, 2023	-	12	749	ND	ND	ND	ND	ND	ND	ND	230
BH22-97	0	January 3, 2023	-	-	825	ND	ND	ND	ND	ND	ND	ND	320
	2	January 3, 2023	-	-	469	ND	ND	ND	ND	ND	ND	ND	ND
	4	January 3, 2023	-	0	357	ND	ND	ND	ND	ND	ND	ND	ND
BH22-98	0	January 3, 2023	-	-	460	ND	ND	ND	ND	ND	ND	ND	ND
	2	January 3, 2023	-	-	393	ND	ND	ND	ND	ND	ND	ND	68
	4	January 3, 2023	-	0	294	ND	ND	ND	ND	ND	ND	ND	ND
BH22-99	0	January 3, 2023	-	-	509	ND	ND	ND	ND	ND	ND	ND	150
	2	January 3, 2023	-	-	1,108	ND	ND	ND	ND	ND	ND	ND	780
	4	January 3, 2023	-	5	385	ND	ND	ND	ND	ND	ND	ND	59
BH22-100	0	January 3, 2023	-	-	984	ND	ND	ND	ND	ND	ND	ND	460
	2	January 3, 2023	-	-	1,290	ND	ND	ND	ND	ND	ND	ND	960
	4	January 3, 2023	-	4	828	ND	ND	ND	ND	ND	ND	ND	470
BH22-101	0	January 3, 2023	-	-	673	ND	ND	ND	ND	ND	ND	ND	440
	2	January 3, 2023	-	-	1,202	ND	ND	ND	ND	ND	ND	ND	990
	4	January 3, 2023	-	2	1,239	ND	ND	ND	ND	ND	ND	ND	1100
BH22-102	0	January 3, 2023	-	-	640	ND	ND	ND	ND	ND	ND	ND	320
	2	January 3, 2023	-	-	1,013	ND	ND	ND	ND	ND	ND	ND	760
	4	January 3, 2023	-	4	196	ND	ND	ND	ND	ND	ND	ND	74
BH22-103	0	January 3, 2023	-	-	395	ND	ND	ND	ND	ND	ND	ND	86
	2	January 3, 2023	-	-	835	ND	ND	ND	ND	ND	ND	ND	780
	4	January 3, 2023	-	3	135	ND	ND	ND	ND	ND	ND	ND	ND

Client Name: Devon Energy Production Company, LP

Site Name: East Pecos Pipeline Spill

NMOCD Tracking #: nAPP2233339274

Project #: 22E-03982

Lab Reports: 2212E44, 2301065, 2301068, 2301135, 2301226, 2301272, 2301981, 2302198, 2302264, 2302A68, 2303967, and 2303A37

Table 2. Initial Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater 51-100 feet bgs

Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (petroflag)	Chloride Concentration	Volatile		Extractable					
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH22-104	0	January 4, 2023	-	-	596	ND	ND	ND	ND	ND	ND	ND	380
	2	January 4, 2023	-	-	355	ND	ND	ND	ND	ND	ND	ND	250
	4	January 4, 2023	-	6	314	ND	ND	ND	ND	ND	ND	ND	ND
BH22-105	0	January 4, 2023	-	-	1,031	ND	ND	ND	ND	ND	ND	ND	1100
	2	January 4, 2023	-	-	310	ND	ND	ND	ND	ND	ND	ND	100
	4	January 4, 2023	-	6	191	ND	ND	ND	ND	ND	ND	ND	200
BH22-106	0	January 4, 2023	-	-	1,438	ND	ND	ND	ND	ND	ND	ND	1600
	2	January 4, 2023	-	-	252	ND	ND	ND	ND	ND	ND	ND	230
	4	January 4, 2023	-	10	233	ND	ND	ND	ND	ND	ND	ND	84
BH22-107	0	January 4, 2023	-	-	242	ND	ND	ND	ND	ND	ND	ND	ND
	2	January 4, 2023	-	-	965	ND	ND	ND	ND	ND	ND	ND	560
	4	January 4, 2023	-	6	311	ND	ND	ND	ND	ND	ND	ND	180
BH22-108	10	January 23, 2023	-	-	20,751	ND	ND	ND	ND	ND	ND	ND	17000
	15	January 23, 2023	-	-	19,044	-	-	-	-	-	-	-	-
	20	January 23, 2023	-	49	9,229	ND	ND	ND	ND	ND	ND	ND	7300
	25	January 23, 2023	-	45	18,103	-	-	-	-	-	-	-	-
	30	January 23, 2023	-	44	16,228	ND	ND	ND	ND	ND	ND	ND	13000
	35	January 23, 2023	-	0	17,754	-	-	-	-	-	-	-	-
	40	January 23, 2023	-	47	18,168	ND	ND	ND	ND	ND	ND	ND	13000
BH22-109	10	January 23, 2023	-	39	3,901	ND	ND	ND	ND	ND	ND	ND	2400
	15	January 23, 2023	-	-	3,919	-	-	-	-	-	-	-	-
	20	January 23, 2023	-	0	4,810	ND	ND	ND	ND	ND	ND	ND	2800
	25	January 23, 2023	-	0	1,856	-	-	-	-	-	-	-	-
	30	January 23, 2023	-	0	3,377	ND	ND	ND	ND	ND	ND	ND	1800
	35	January 23, 2023	-	38	3,534	-	-	-	-	-	-	-	-
	40	January 23, 2023	-	0	1,962	ND	ND	ND	ND	ND	ND	ND	1200
BH22-110	10	January 23, 2023	-	-	12,068	ND	ND	ND	ND	ND	ND	ND	9200
	15	January 23, 2023	-	-	16,996	-	-	-	-	-	-	-	-
	20	January 23, 2023	-	-	22,235	ND	ND	ND	ND	ND	ND	ND	14000
	25	January 23, 2023	-	0	7,246	-	-	-	-	-	-	-	-
	30	January 23, 2023	-	0	4,019	ND	ND	ND	ND	ND	ND	ND	3100
	35	January 23, 2023	-	0	4,269	-	-	-	-	-	-	-	-
	40	January 23, 2023	-	80	4,404	ND	ND	ND	ND	ND	ND	ND	2900
BH22-111	10	January 23, 2023	-	0	10,404	ND	ND	ND	ND	ND	ND	ND	7600
	15	January 23, 2023	-	0	12,807	-	-	-	-	-	-	-	-
	20	January 23, 2023	-	0	16,391	ND	ND	ND	ND	ND	ND	ND	11000
	25	January 23, 2023	-	0	10,248	-	-	-	-	-	-	-	-
	30	January 23, 2023	-	73	6,953	ND	ND	ND	ND	ND	ND	ND	3800
	35	January 23, 2023	-	31	9,250	-	-	-	-	-	-	-	-
	40	January 23, 2023	-	29	10,069	ND	ND	ND	ND	ND	ND	ND	8900
BH22-112	10	January 23, 2023	-	95	13,982	ND	ND	ND	ND	ND	ND	ND	10000
	15	January 23, 2023	-	107	11,328	-	-	-	-	-	-	-	-
	20	January 23, 2023	-	168	15,697	ND	ND	ND	ND	ND	ND	ND	11000
	25	January 23, 2023	-	61	8,352	-	-	-	-	-	-	-	-
	30	January 23, 2023	-	58	6,512	ND	ND	ND	ND	ND	ND	ND	4000
	35	January 23, 2023	-	71	6,832	-	-	-	-	-	-	-	-
	40	January 23, 2023	-	48	7,372	ND	ND	ND	ND	ND	ND	ND	4700
BH22-116	0	February 3, 2023	-	59	447	ND	ND	ND	ND	ND	ND	ND	260
	2	February 3, 2023	-	18	479	ND	ND	ND	ND	ND	ND	ND	190
BH22-117	0	February 3, 2023	-	48	460	ND	ND	ND	ND	ND	ND	ND	400
	2	February 3, 2023	-	32	357	ND	ND	ND	ND	ND	ND	ND	ND
BH22-118	0	February 3, 2023	-	101	4,946	ND	ND	ND	ND	ND	ND	ND	3200
	2	February 3, 2023	-	46	1,372	ND	ND	ND	21	ND	21	21	1100
BH22-119	0	February 3, 2023	-	48	150	ND	ND	ND	ND	ND	ND	ND	73
	2	February 3, 2023	-	15	207	ND	ND	ND	ND	ND	ND	ND	ND
BH22-120	0	February 3, 2023	-	37	30	ND	ND	ND	ND	ND	ND	ND	ND
	2	February 3, 2023	-	33	284	ND	ND	ND	ND	ND	ND	ND	100
	4	February 3, 2023	-	55	323	ND	ND	ND	ND	ND	ND	ND	180
BH22-121	0	February 3, 2023	-	85	93	ND	ND	ND	ND	ND	ND	ND	ND
	2	February 3, 2023	-	29	180	ND	ND	ND	ND	ND	ND	ND	ND
BH23-122	0	February 3, 2023	-	54	93	ND	ND	ND	ND	ND	ND	ND	ND
	2	February 3, 2023	-	67	359	ND	ND	ND	ND	ND	ND	ND	88
	4	February 3, 2023	-	19	157	ND	ND	ND	ND	ND	ND	ND	ND
BH22-123	0	February 3, 2023	-	36	326	ND	ND	ND	ND	ND	ND	ND	ND
	2	February 3, 2023	-	36	326	ND	ND	ND	ND	ND	ND	ND	62
BH23-124	0	February 3, 2023	-	0	382	ND	ND	ND	ND	ND	ND	ND	ND
	2	February 3, 2023	-	-	-	ND	ND	ND	ND	ND	ND	ND	940

Client Name: Devon Energy Production Company, LP

Site Name: East Pecos Pipeline Spill

NMOCD Tracking #: nAPP2233339274

Project #: 22E-03982

Lab Reports: 2212E44, 2301065, 2301068, 2301135, 2301226, 2301272, 2301981, 2302198, 2302264, 2302A68, 2303967, and 2303A37

Table 2. Initial Characterization Sample Field Screen and Laboratory Results - Depth to Groundwater 51-100 feet bgs

Sample Description			Field Screening			Petroleum Hydrocarbons								Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds	Extractable Organic Compounds (petroflag)	Chloride Concentration	Volatile		Extractable					Chloride Concentration	
			(PID)	(ppm)	(ppm)	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)		
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
BH22-125	0	February 3, 2023	-	92	350	ND	ND	ND	ND	ND	ND	ND	100	
	2	February 3, 2023	-	-	-	ND	ND	ND	ND	ND	ND	ND	1200	
	4	February 3, 2023	-	-	-	ND	ND	ND	ND	ND	ND	ND	140	
BH22-126	0	February 3, 2023	-	0	342	ND	ND	ND	ND	ND	ND	ND	ND	
	2	February 3, 2023	-	-	-	ND	ND	ND	ND	ND	ND	ND	1000	
BH22-127	0	February 3, 2023	-	72	269	ND	ND	ND	ND	ND	ND	ND	64	
	2	February 3, 2023	-	-	-	ND	ND	ND	ND	ND	ND	ND	110	
BH22-128	0	February 3, 2023	-	91	401	ND	ND	ND	ND	ND	ND	ND	ND	
	2	February 3, 2023	-	-	-	ND	ND	ND	ND	ND	ND	ND	620	
BH22-129	0	February 3, 2023	-	-	-	ND	ND	ND	ND	ND	ND	ND	120	
	2	February 3, 2023	-	-	-	ND	ND	ND	ND	ND	ND	ND	880	
BH22-130	0	February 3, 2023	-	-	-	ND	0.59	38	15000	8000	15038	23038	12000	
	2	February 3, 2023	-	-	-	ND	ND	ND	120	66	129	186	5000	
	4	February 3, 2023	-	-	-	ND	ND	ND	ND	ND	ND	ND	4500	
BH22-131	0	February 3, 2023	-	-	-	ND	ND	ND	74	48	74	122	4900	
	2	February 3, 2023	-	-	-	ND	ND	ND	ND	ND	ND	ND	9400	
	4	February 3, 2023	-	-	-	ND	ND	ND	ND	ND	ND	ND	9300	
BH22-132	0	February 22, 2023	-	15	69	ND	ND	ND	ND	ND	ND	ND	ND	
	2	February 22, 2023	-	0	49	ND	ND	ND	ND	ND	ND	ND	ND	
BH22-133	0	February 22, 2023	-	0	241	ND	ND	ND	ND	ND	ND	ND	ND	
	2	February 22, 2023	-	7	486	ND	ND	ND	ND	ND	ND	ND	400	
BH22-134	0	February 22, 2023	-	0	441	ND	ND	ND	ND	ND	ND	ND	360	
	2	February 22, 2023	-	5	1,047	ND	ND	ND	ND	ND	ND	ND	850	
BH22-135	0	February 22, 2023	-	2	177	ND	ND	ND	ND	ND	ND	ND	ND	
	2	February 22, 2023	-	34	764	ND	ND	ND	ND	ND	ND	ND	720	
BH22-136	0	February 22, 2023	-	3	317	ND	ND	ND	ND	ND	ND	ND	120	
	2	February 22, 2023	-	13	1,164	ND	ND	ND	ND	ND	ND	ND	850	
BH22-137	0	February 22, 2023	-	18	154	ND	ND	ND	ND	ND	ND	ND	ND	
	2	February 22, 2023	-	14	861	ND	ND	ND	ND	ND	ND	ND	490	
BH22-138	20	March 15, 2023	1	-	11,452	ND	ND	ND	ND	ND	ND	ND	11000	
	30	March 15, 2023	0	-	3,342	ND	ND	ND	ND	ND	ND	ND	3100	
	40	March 15, 2023	0	114	2,657	ND	ND	ND	ND	ND	ND	ND	2400	
	45	March 15, 2023	0	48	3,002	ND	ND	ND	ND	ND	ND	ND	2200	
	50	March 15, 2023	0	65	8,808	ND	ND	ND	ND	ND	ND	ND	9800	
BH22-139	20	March 16, 2023	0	-	7,648	ND	ND	ND	ND	ND	ND	ND	7600	
	30	March 16, 2023	0	-	8,492	ND	ND	ND	ND	ND	ND	ND	8100	
	40	March 16, 2023	0	58	6,069	ND	ND	ND	ND	ND	ND	ND	4700	
	45	March 16, 2023	0	90	5,604	ND	ND	ND	ND	ND	ND	ND	3800	
BH22-140	25	March 16, 2023	0	-	7,811	ND	ND	ND	ND	ND	ND	ND	5300	
	30	March 16, 2023	0	-	5,828	ND	ND	ND	ND	ND	ND	ND	4400	
	35	March 16, 2023	0	-	6,444	ND	ND	ND	ND	ND	ND	ND	6000	
	40	March 16, 2023	0	76	5,389	ND	ND	ND	ND	ND	ND	ND	4500	
BH22-141	45	March 16, 2023	0	64	7,256	ND	ND	ND	ND	ND	ND	ND	5500	
	20	March 16, 2023	0	-	4,553	ND	ND	ND	ND	ND	ND	ND	3800	
	26	March 16, 2023	0	-	4,641	ND	ND	ND	ND	ND	ND	ND	4700	
	30	March 17, 2023	0	-	2,388	ND	ND	ND	ND	ND	ND	ND	2200	
	40	March 17, 2023	0	53	951	ND	ND	ND	ND	ND	ND	ND	400	
	45	March 17, 2023	0	52	936	ND	ND	ND	ND	ND	ND	ND	450	
	50	March 17, 2023	0	43	889	ND	ND	ND	ND	ND	ND	ND	290	
	54	March 17, 2023	0	34	712	ND	ND	ND	ND	ND	ND	ND	300	
	56	March 17, 2023	0	47	712	ND	ND	ND	ND	ND	ND	ND	290	
	59	March 17, 2023	0	43	783	ND	ND	ND	ND	ND	ND	ND	270	
	64	March 17, 2023	0	45	419	ND	ND	ND	ND	ND	ND	ND	270	
	69	March 17, 2023	0	42	437	ND	ND	ND	ND	ND	ND	ND	220	
	74	March 17, 2023	0	25	353	ND	ND	ND	ND	ND	ND	ND	210	
	79	March 17, 2023	0	22	395	ND	ND	ND	ND	ND	ND	ND	180	

"ND" Not Detected at the Reporting Limit

"-." indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria (>=4 feet bgs)

Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria (0-4 feet bgs)

ATTACHMENT 3



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	12/21/2022
Site Location Name:	East Pecos Pipeline Spill	Report Run Date:	12/22/2022 1:00 AM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	12/21/2022 12:00 PM
Departed Site	12/21/2022 5:20 PM

Daily Site Visit Report



Site Sketch

Site Sketch

Daily Site Visit Report



Field Notes

15:49 Plotted sample points for vertical and horizontal delineation

15:49 Landowner stopped by to check on status

15:50 All sample points are marked with flags

14:41 Geoprobe used for top four feet for horizontal delineation

16:20 Collected points 61-71 and bh20 with geoprobe for horizontal delineation samples still need to be field screened. Working on collecting as many samples as possible to beat cold weather coming later in the week

Next Steps & Recommendations

1 Use geoprobe to complete delineation vertically

2 Finish delineation

Daily Site Visit Report



Site Photos

Viewing Direction: North



Sample areas

Viewing Direction: West



Sample areas

Viewing Direction: East



Sample areas

Viewing Direction: South



Sample areas



Daily Site Visit Report

<p>Viewing Direction: Southeast</p>  <p>Descriptive Photo - 6 Viewing Direction: Southeast Desc: Sample area Created: 12/20/2022 3:01:43 PM Lat:32.618647, Long: -103.909847</p> <p>Sample areas</p>	<p>Viewing Direction: Northwest</p>  <p>Descriptive Photo - 5 Viewing Direction: Northwest Desc: Geoprobe for horizontal delineation Created: 12/21/2022 1:46:21 PM Lat:32.618226, Long: -103.908573</p> <p>Geoprobe for horizontal delineation</p>
<p>Viewing Direction: East</p>  <p>Descriptive Photo - 7 Viewing Direction: East Desc: Geoprobe Point Created: 12/21/2022 3:44:41 PM Lat:32.618226, Long: -103.909240</p> <p>Geoprobe point</p>	<p>Viewing Direction: South</p>  <p>Descriptive Photo - 8 Viewing Direction: South Desc: Sample Point Created: 12/21/2022 3:39:19 PM Lat:32.618226, Long: -103.909240</p> <p>Samplepoint</p>

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Monica Peppin

Signature:

A handwritten signature in black ink, consisting of a series of loops and a final circular flourish.

Signature



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	12/28/2022
Site Location Name:	East Pecos Pipeline Spill	Report Run Date:	12/30/2022 9:35 PM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	12/28/2022 10:57 AM
Departed Site	12/28/2022 3:36 PM

Daily Site Visit Report



Site Sketch

Site Sketch

Daily Site Visit Report



Field Notes

10:58 Vertical delineation with geoprobe

13:06 Historical impacts from a previous pad that was located within point of release area could be showing in field screens

16:29 Completed three boreholes for vertical delineation to 16 feet. Had to stop work due to wind and dust blowing. Called off remaining trucks hauling out to prevent spread of contamination

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: Southeast



BH22-01

Viewing Direction: East



BH22-02

Viewing Direction: North



BH22-03

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Monica Peppin

Signature:

A handwritten signature in black ink, consisting of a series of loops and a final horizontal stroke.

Signature



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	1/23/2023
Site Location Name:	East Pecos Pipeline Spill	Report Run Date:	1/24/2023 1:24 AM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	1/23/2023 8:45 AM
Departed Site	1/23/2023 2:36 PM

Field Notes

8:51 Completed JSA on arrival. On site to vertically delineate release with third party core rig.

10:48 Conducted safety meeting with rig crew.

10:49 Swept sampling points with magnetic locator prior to ground disturbance.

14:35 Advanced BH23-108, 109, and 110 to 40 feet bgs north of pipeline road.

14:35 Advanced BH23-111 and 112 to 40 feet bgs south of pipeline road.

Next Steps & Recommendations

1 Finish boreholes with core rig.

Daily Site Visit Report



Site Photos

Viewing Direction: East



Northwest end of release area facing east.
Advanced BH22-108 with core rig.

Viewing Direction: East



North end of release area facing east.
Advanced BH22-109 with core rig.

Viewing Direction: East



North end of release area facing east.
Advanced BH22-110 with core rig.

Viewing Direction: Southeast



North end of release area facing southeast.
Advanced BH22-111 with core rig.



Daily Site Visit Report

Viewing Direction: Southeast



East edge of release facing southeast.
Advanced BH23-112 with core rig.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

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

Signature



Daily Site Visit Report

Client:	Devon Energy Corporation	Inspection Date:	3/17/2023
Site Location Name:	East Pecos Pipeline Spill	Report Run Date:	3/18/2023 12:03 AM
Client Contact Name:	Wes Matthews	API #:	
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	3/17/2023 7:22 AM
Departed Site	3/17/2023 1:53 PM

Field Notes

7:37 Completed JSA on arrival. On site with Talon and Kelly Services to complete BH23-141.

8:29 Conducted safety meeting with Jim Raley, Talon, and Kelly Services.

8:32 Proceeded to extract last boring on BH22-141 from day before.

13:23 Advanced BH22-141 to 79 feet bgs. Majority of soil was silty red clay except for a sand layer between 48 and 55 feet bgs.

13:25 Field screening results for samples at 64, 69, 74, and 79 feet bgs were below NMOCD strictest criterion for chloride.

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: West



On north side of release area facing west.
Beginning of day.

Viewing Direction: Southeast



On northwest edge of release area facing
southeast. Beginning of day.

Viewing Direction: Southwest



Northwest edge of release area facing south.
Continued advancing BH22-141.

Viewing Direction: North



Core for BH22-141.



Daily Site Visit Report

Viewing Direction: North



Core for BH22-141.

Viewing Direction: North



Core for BH22-141.

Viewing Direction: South



West end of release area facing east.
Completed BH22-141.

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

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

Signature

ATTACHMENT 4



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

January 12, 2023

Monica Peppin

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (575) 748-0176

FAX:

RE: East Pecos Pipeline Spill

OrderNo.: 2212E44

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 102 sample(s) on 12/29/2022 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-16 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 9:15:00 AM

Lab ID: 2212E44-001

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/30/2022 9:23:00 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/30/2022 9:23:00 AM
Surr: DNOP	130	21-129	S	%Rec	1	12/30/2022 9:23:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 11:28:00 AM
Surr: BFB	115	37.7-212		%Rec	1	12/30/2022 11:28:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/30/2022 11:28:00 AM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 11:28:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 11:28:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/30/2022 11:28:00 AM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	12/30/2022 11:28:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	15000	1500		mg/Kg	500	1/3/2023 10:41:44 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-16 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 9:20:00 AM

Lab ID: 2212E44-002

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/30/2022 9:33:27 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/30/2022 9:33:27 AM
Surr: DNOP	124	21-129		%Rec	1	12/30/2022 9:33:27 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/30/2022 12:28:00 PM
Surr: BFB	114	37.7-212		%Rec	1	12/30/2022 12:28:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/30/2022 12:28:00 PM
Toluene	ND	0.048		mg/Kg	1	12/30/2022 12:28:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/30/2022 12:28:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/30/2022 12:28:00 PM
Surr: 4-Bromofluorobenzene	125	70-130		%Rec	1	12/30/2022 12:28:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	16000	1500		mg/Kg	500	1/3/2023 10:54:09 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-16 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 9:25:00 AM

Lab ID: 2212E44-003

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/30/2022 9:43:57 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/30/2022 9:43:57 AM
Surr: DNOP	117	21-129		%Rec	1	12/30/2022 9:43:57 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 1:26:00 PM
Surr: BFB	105	37.7-212		%Rec	1	12/30/2022 1:26:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/30/2022 1:26:00 PM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 1:26:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 1:26:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/30/2022 1:26:00 PM
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	12/30/2022 1:26:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	17000	1500		mg/Kg	500	1/3/2023 11:06:34 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-18 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 9:30:00 AM

Lab ID: 2212E44-004

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	17	14		mg/Kg	1	12/30/2022 9:54:25 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/30/2022 9:54:25 AM
Surr: DNOP	118	21-129		%Rec	1	12/30/2022 9:54:25 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/30/2022 1:46:00 PM
Surr: BFB	106	37.7-212		%Rec	1	12/30/2022 1:46:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/30/2022 1:46:00 PM
Toluene	ND	0.048		mg/Kg	1	12/30/2022 1:46:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/30/2022 1:46:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/30/2022 1:46:00 PM
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	12/30/2022 1:46:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	17000	1500		mg/Kg	500	1/3/2023 11:18:59 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-18 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 9:35:00 AM

Lab ID: 2212E44-005

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/30/2022 10:04:55 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/30/2022 10:04:55 AM
Surr: DNOP	118	21-129		%Rec	1	12/30/2022 10:04:55 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 2:06:00 PM
Surr: BFB	110	37.7-212		%Rec	1	12/30/2022 2:06:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/30/2022 2:06:00 PM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 2:06:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 2:06:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/30/2022 2:06:00 PM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	12/30/2022 2:06:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	14000	1500		mg/Kg	500	1/3/2023 11:31:23 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-18 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 9:40:00 AM

Lab ID: 2212E44-006

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/30/2022 10:15:24 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/30/2022 10:15:24 AM
Surr: DNOP	116	21-129		%Rec	1	12/30/2022 10:15:24 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/30/2022 2:25:00 PM
Surr: BFB	106	37.7-212		%Rec	1	12/30/2022 2:25:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/30/2022 2:25:00 PM
Toluene	ND	0.048		mg/Kg	1	12/30/2022 2:25:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/30/2022 2:25:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/30/2022 2:25:00 PM
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	12/30/2022 2:25:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	20000	600		mg/Kg	200	1/3/2023 11:43:47 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-19 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 9:45:00 AM

Lab ID: 2212E44-007

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/30/2022 1:24:32 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/30/2022 1:24:32 PM
Surr: DNOP	153	21-129	S	%Rec	1	12/30/2022 1:24:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/30/2022 2:45:00 PM
Surr: BFB	108	37.7-212		%Rec	1	12/30/2022 2:45:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/30/2022 2:45:00 PM
Toluene	ND	0.048		mg/Kg	1	12/30/2022 2:45:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/30/2022 2:45:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/30/2022 2:45:00 PM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	12/30/2022 2:45:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	3800	150		mg/Kg	50	1/3/2023 11:56:12 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-19 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 9:50:00 AM

Lab ID: 2212E44-008

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/30/2022 4:48:20 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/30/2022 4:48:20 PM
Surr: DNOP	118	21-129		%Rec	1	12/30/2022 4:48:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 3:05:00 PM
Surr: BFB	109	37.7-212		%Rec	1	12/30/2022 3:05:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/30/2022 3:05:00 PM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 3:05:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 3:05:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/30/2022 3:05:00 PM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	12/30/2022 3:05:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	20000	1500		mg/Kg	500	1/3/2023 12:33:24 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-19 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 9:55:00 AM

Lab ID: 2212E44-009

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/30/2022 6:22:30 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/30/2022 6:22:30 PM
Surr: DNOP	121	21-129		%Rec	1	12/30/2022 6:22:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/30/2022 3:24:00 PM
Surr: BFB	107	37.7-212		%Rec	1	12/30/2022 3:24:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/30/2022 3:24:00 PM
Toluene	ND	0.050		mg/Kg	1	12/30/2022 3:24:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/30/2022 3:24:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/30/2022 3:24:00 PM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	12/30/2022 3:24:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	14000	600		mg/Kg	200	1/3/2023 12:45:48 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-20 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 10:00:00 AM

Lab ID: 2212E44-010

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/30/2022 6:32:55 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/30/2022 6:32:55 PM
Surr: DNOP	126	21-129		%Rec	1	12/30/2022 6:32:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 3:44:00 PM
Surr: BFB	106	37.7-212		%Rec	1	12/30/2022 3:44:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/30/2022 3:44:00 PM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 3:44:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 3:44:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/30/2022 3:44:00 PM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	12/30/2022 3:44:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1200	60		mg/Kg	20	12/31/2022 2:59:24 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-20 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 10:05:00 AM

Lab ID: 2212E44-011

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/30/2022 6:43:20 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/30/2022 6:43:20 PM
Surr: DNOP	120	21-129		%Rec	1	12/30/2022 6:43:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/30/2022 4:23:00 PM
Surr: BFB	111	37.7-212		%Rec	1	12/30/2022 4:23:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/30/2022 4:23:00 PM
Toluene	ND	0.048		mg/Kg	1	12/30/2022 4:23:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/30/2022 4:23:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/30/2022 4:23:00 PM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	12/30/2022 4:23:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	13000	600		mg/Kg	200	1/4/2023 7:16:42 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-20 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 10:10:00 AM

Lab ID: 2212E44-012

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/30/2022 6:53:46 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/30/2022 6:53:46 PM
Surr: DNOP	123	21-129		%Rec	1	12/30/2022 6:53:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 4:43:00 PM
Surr: BFB	109	37.7-212		%Rec	1	12/30/2022 4:43:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/30/2022 4:43:00 PM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 4:43:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 4:43:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/30/2022 4:43:00 PM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	12/30/2022 4:43:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	12000	600		mg/Kg	200	1/4/2023 7:29:06 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-21 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 10:15:00 AM

Lab ID: 2212E44-013

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/30/2022 7:04:12 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/30/2022 7:04:12 PM
Surr: DNOP	136	21-129	S	%Rec	1	12/30/2022 7:04:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 5:02:00 PM
Surr: BFB	108	37.7-212		%Rec	1	12/30/2022 5:02:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/30/2022 5:02:00 PM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 5:02:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 5:02:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/30/2022 5:02:00 PM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	12/30/2022 5:02:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	690	60		mg/Kg	20	1/3/2023 3:02:17 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-21 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 10:20:00 AM

Lab ID: 2212E44-014

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/30/2022 7:14:39 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/30/2022 7:14:39 PM
Surr: DNOP	113	21-129		%Rec	1	12/30/2022 7:14:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/30/2022 5:22:00 PM
Surr: BFB	104	37.7-212		%Rec	1	12/30/2022 5:22:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/30/2022 5:22:00 PM
Toluene	ND	0.050		mg/Kg	1	12/30/2022 5:22:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/30/2022 5:22:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/30/2022 5:22:00 PM
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	12/30/2022 5:22:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	17000	600		mg/Kg	200	1/4/2023 7:41:31 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-21 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 10:25:00 AM

Lab ID: 2212E44-015

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/30/2022 7:25:10 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/30/2022 7:25:10 PM
Surr: DNOP	111	21-129		%Rec	1	12/30/2022 7:25:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/30/2022 5:42:00 PM
Surr: BFB	109	37.7-212		%Rec	1	12/30/2022 5:42:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/30/2022 5:42:00 PM
Toluene	ND	0.048		mg/Kg	1	12/30/2022 5:42:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/30/2022 5:42:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/30/2022 5:42:00 PM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	12/30/2022 5:42:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	14000	600		mg/Kg	200	1/4/2023 7:53:55 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-22 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 10:30:00 AM

Lab ID: 2212E44-016

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/31/2022 2:49:57 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/31/2022 2:49:57 PM
Surr: DNOP	155	21-129	S	%Rec	1	12/31/2022 2:49:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 6:01:00 PM
Surr: BFB	103	37.7-212		%Rec	1	12/30/2022 6:01:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/30/2022 6:01:00 PM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 6:01:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 6:01:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/30/2022 6:01:00 PM
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	12/30/2022 6:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	240	60		mg/Kg	20	1/3/2023 3:39:31 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-22 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 10:35:00 AM

Lab ID: 2212E44-017

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/30/2022 7:46:21 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/30/2022 7:46:21 PM
Surr: DNOP	121	21-129		%Rec	1	12/30/2022 7:46:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/30/2022 6:21:00 PM
Surr: BFB	110	37.7-212		%Rec	1	12/30/2022 6:21:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/30/2022 6:21:00 PM
Toluene	ND	0.048		mg/Kg	1	12/30/2022 6:21:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/30/2022 6:21:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/30/2022 6:21:00 PM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	12/30/2022 6:21:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/3/2023 3:51:55 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-22 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 10:40:00 AM

Lab ID: 2212E44-018

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/31/2022 12:27:48 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/31/2022 12:27:48 PM
Surr: DNOP	118	21-129		%Rec	1	12/31/2022 12:27:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 6:41:00 PM
Surr: BFB	108	37.7-212		%Rec	1	12/30/2022 6:41:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/30/2022 6:41:00 PM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 6:41:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 6:41:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/30/2022 6:41:00 PM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	12/30/2022 6:41:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/3/2023 4:04:20 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-23 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 10:45:00 AM

Lab ID: 2212E44-019

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 12:59:27 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/31/2022 12:59:27 PM
Surr: DNOP	130	21-129	S	%Rec	1	12/31/2022 12:59:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 7:01:00 PM
Surr: BFB	105	37.7-212		%Rec	1	12/30/2022 7:01:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/30/2022 7:01:00 PM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 7:01:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 7:01:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/30/2022 7:01:00 PM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	12/30/2022 7:01:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	6900	300		mg/Kg	100	1/4/2023 8:06:19 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-23 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 10:50:00 AM

Lab ID: 2212E44-020

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 1:10:01 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/31/2022 1:10:01 PM
Surr: DNOP	115	21-129		%Rec	1	12/31/2022 1:10:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 7:20:00 PM
Surr: BFB	107	37.7-212		%Rec	1	12/30/2022 7:20:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/30/2022 7:20:00 PM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 7:20:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 7:20:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/30/2022 7:20:00 PM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	12/30/2022 7:20:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	11000	600		mg/Kg	200	1/4/2023 8:18:43 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-23 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 10:55:00 AM

Lab ID: 2212E44-021

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 1:32:56 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/31/2022 1:32:56 PM
Surr: DNOP	124	21-129		%Rec	1	12/31/2022 1:32:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/30/2022 1:18:15 PM
Surr: BFB	89.6	37.7-212		%Rec	1	12/30/2022 1:18:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/30/2022 1:18:15 PM
Toluene	ND	0.050		mg/Kg	1	12/30/2022 1:18:15 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/30/2022 1:18:15 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/30/2022 1:18:15 PM
Surr: 4-Bromofluorobenzene	84.9	70-130		%Rec	1	12/30/2022 1:18:15 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	8700	300		mg/Kg	100	1/4/2023 8:31:07 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-24 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 11:00:00 AM

Lab ID: 2212E44-022

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/31/2022 1:43:32 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/31/2022 1:43:32 PM
Surr: DNOP	141	21-129	S	%Rec	1	12/31/2022 1:43:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/30/2022 2:29:07 PM
Surr: BFB	90.0	37.7-212		%Rec	1	12/30/2022 2:29:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/30/2022 2:29:07 PM
Toluene	ND	0.046		mg/Kg	1	12/30/2022 2:29:07 PM
Ethylbenzene	ND	0.046		mg/Kg	1	12/30/2022 2:29:07 PM
Xylenes, Total	ND	0.093		mg/Kg	1	12/30/2022 2:29:07 PM
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	12/30/2022 2:29:07 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	280	59		mg/Kg	20	1/3/2023 4:53:58 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-24 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 11:05:00 AM

Lab ID: 2212E44-023

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/31/2022 1:54:08 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/31/2022 1:54:08 PM
Surr: DNOP	126	21-129		%Rec	1	12/31/2022 1:54:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/30/2022 3:39:49 PM
Surr: BFB	90.4	37.7-212		%Rec	1	12/30/2022 3:39:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/30/2022 3:39:49 PM
Toluene	ND	0.048		mg/Kg	1	12/30/2022 3:39:49 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/30/2022 3:39:49 PM
Xylenes, Total	ND	0.095		mg/Kg	1	12/30/2022 3:39:49 PM
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	12/30/2022 3:39:49 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	310	60		mg/Kg	20	1/3/2023 5:31:11 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-24 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 11:10:00 AM

Lab ID: 2212E44-024

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 2:04:46 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/31/2022 2:04:46 PM
Surr: DNOP	124	21-129		%Rec	1	12/31/2022 2:04:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/30/2022 4:03:24 PM
Surr: BFB	90.4	37.7-212		%Rec	1	12/30/2022 4:03:24 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/30/2022 4:03:24 PM
Toluene	ND	0.047		mg/Kg	1	12/30/2022 4:03:24 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/30/2022 4:03:24 PM
Xylenes, Total	ND	0.094		mg/Kg	1	12/30/2022 4:03:24 PM
Surr: 4-Bromofluorobenzene	83.6	70-130		%Rec	1	12/30/2022 4:03:24 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/3/2023 5:43:36 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-25 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 11:15:00 AM

Lab ID: 2212E44-025

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/31/2022 2:15:24 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/31/2022 2:15:24 PM
Surr: DNOP	122	21-129		%Rec	1	12/31/2022 2:15:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 4:26:54 PM
Surr: BFB	88.6	37.7-212		%Rec	1	12/30/2022 4:26:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/30/2022 4:26:54 PM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 4:26:54 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 4:26:54 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/30/2022 4:26:54 PM
Surr: 4-Bromofluorobenzene	84.2	70-130		%Rec	1	12/30/2022 4:26:54 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	8100	300		mg/Kg	100	1/4/2023 8:43:32 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-25 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 11:20:00 AM

Lab ID: 2212E44-026

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/31/2022 2:26:02 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/31/2022 2:26:02 PM
Surr: DNOP	117	21-129		%Rec	1	12/31/2022 2:26:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 4:50:21 PM
Surr: BFB	90.2	37.7-212		%Rec	1	12/30/2022 4:50:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/30/2022 4:50:21 PM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 4:50:21 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 4:50:21 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/30/2022 4:50:21 PM
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	12/30/2022 4:50:21 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	12000	600		mg/Kg	200	1/4/2023 8:55:57 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-25 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 11:25:00 AM

Lab ID: 2212E44-027

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 2:36:43 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/31/2022 2:36:43 PM
Surr: DNOP	117	21-129		%Rec	1	12/31/2022 2:36:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/30/2022 5:13:41 PM
Surr: BFB	92.0	37.7-212		%Rec	1	12/30/2022 5:13:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/30/2022 5:13:41 PM
Toluene	ND	0.048		mg/Kg	1	12/30/2022 5:13:41 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/30/2022 5:13:41 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/30/2022 5:13:41 PM
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	12/30/2022 5:13:41 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	10000	300		mg/Kg	100	1/4/2023 9:08:22 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-26 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 11:30:00 AM

Lab ID: 2212E44-028

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/31/2022 2:47:22 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/31/2022 2:47:22 PM
Surr: DNOP	142	21-129	S	%Rec	1	12/31/2022 2:47:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/30/2022 6:24:24 PM
Surr: BFB	92.3	37.7-212		%Rec	1	12/30/2022 6:24:24 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/30/2022 6:24:24 PM
Toluene	ND	0.047		mg/Kg	1	12/30/2022 6:24:24 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/30/2022 6:24:24 PM
Xylenes, Total	ND	0.095		mg/Kg	1	12/30/2022 6:24:24 PM
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	12/30/2022 6:24:24 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/3/2023 6:33:14 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-26 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 11:35:00 AM

Lab ID: 2212E44-029

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/31/2022 2:58:01 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/31/2022 2:58:01 PM
Surr: DNOP	145	21-129	S	%Rec	1	12/31/2022 2:58:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 6:47:55 PM
Surr: BFB	90.7	37.7-212		%Rec	1	12/30/2022 6:47:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/30/2022 6:47:55 PM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 6:47:55 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 6:47:55 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/30/2022 6:47:55 PM
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	12/30/2022 6:47:55 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/3/2023 6:45:38 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-26 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 11:40:00 AM

Lab ID: 2212E44-030

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/31/2022 3:08:42 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/31/2022 3:08:42 PM
Surr: DNOP	120	21-129		%Rec	1	12/31/2022 3:08:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 7:11:28 PM
Surr: BFB	89.9	37.7-212		%Rec	1	12/30/2022 7:11:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/30/2022 7:11:28 PM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 7:11:28 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 7:11:28 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/30/2022 7:11:28 PM
Surr: 4-Bromofluorobenzene	84.8	70-130		%Rec	1	12/30/2022 7:11:28 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/3/2023 6:58:03 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-27 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 11:45:00 AM

Lab ID: 2212E44-031

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 3:19:22 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/31/2022 3:19:22 PM
Surr: DNOP	127	21-129		%Rec	1	12/31/2022 3:19:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/30/2022 7:35:05 PM
Surr: BFB	91.2	37.7-212		%Rec	1	12/30/2022 7:35:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/30/2022 7:35:05 PM
Toluene	ND	0.050		mg/Kg	1	12/30/2022 7:35:05 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/30/2022 7:35:05 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/30/2022 7:35:05 PM
Surr: 4-Bromofluorobenzene	86.1	70-130		%Rec	1	12/30/2022 7:35:05 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1500	60		mg/Kg	20	1/3/2023 8:12:31 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-27 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 11:50:00 AM

Lab ID: 2212E44-032

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	12/31/2022 3:30:02 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/31/2022 3:30:02 PM
Surr: DNOP	123	21-129		%Rec	1	12/31/2022 3:30:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/30/2022 7:58:39 PM
Surr: BFB	94.2	37.7-212		%Rec	1	12/30/2022 7:58:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/30/2022 7:58:39 PM
Toluene	ND	0.047		mg/Kg	1	12/30/2022 7:58:39 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/30/2022 7:58:39 PM
Xylenes, Total	ND	0.094		mg/Kg	1	12/30/2022 7:58:39 PM
Surr: 4-Bromofluorobenzene	88.6	70-130		%Rec	1	12/30/2022 7:58:39 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	14000	600		mg/Kg	200	1/4/2023 9:45:34 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-27 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 11:55:00 AM

Lab ID: 2212E44-033

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 3:40:44 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/31/2022 3:40:44 PM
Surr: DNOP	113	21-129		%Rec	1	12/31/2022 3:40:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/30/2022 8:22:14 PM
Surr: BFB	90.8	37.7-212		%Rec	1	12/30/2022 8:22:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/30/2022 8:22:14 PM
Toluene	ND	0.046		mg/Kg	1	12/30/2022 8:22:14 PM
Ethylbenzene	ND	0.046		mg/Kg	1	12/30/2022 8:22:14 PM
Xylenes, Total	ND	0.091		mg/Kg	1	12/30/2022 8:22:14 PM
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	12/30/2022 8:22:14 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	12000	600		mg/Kg	200	1/4/2023 9:57:59 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-28 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022

Lab ID: 2212E44-034

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 3:51:35 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/31/2022 3:51:35 PM
Surr: DNOP	118	21-129		%Rec	1	12/31/2022 3:51:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/30/2022 8:45:49 PM
Surr: BFB	90.4	37.7-212		%Rec	1	12/30/2022 8:45:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/30/2022 8:45:49 PM
Toluene	ND	0.048		mg/Kg	1	12/30/2022 8:45:49 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/30/2022 8:45:49 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/30/2022 8:45:49 PM
Surr: 4-Bromofluorobenzene	85.5	70-130		%Rec	1	12/30/2022 8:45:49 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	960	60		mg/Kg	20	1/3/2023 9:39:24 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-28 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 12:05:00 AM

Lab ID: 2212E44-035

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 4:02:27 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/31/2022 4:02:27 PM
Surr: DNOP	116	21-129		%Rec	1	12/31/2022 4:02:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 9:09:17 PM
Surr: BFB	91.9	37.7-212		%Rec	1	12/30/2022 9:09:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/30/2022 9:09:17 PM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 9:09:17 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 9:09:17 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/30/2022 9:09:17 PM
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	12/30/2022 9:09:17 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	10000	300		mg/Kg	100	1/4/2023 10:10:24 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-28 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 12:10:00 AM

Lab ID: 2212E44-036

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/31/2022 4:13:15 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/31/2022 4:13:15 PM
Surr: DNOP	114	21-129		%Rec	1	12/31/2022 4:13:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/30/2022 9:32:53 PM
Surr: BFB	89.7	37.7-212		%Rec	1	12/30/2022 9:32:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/30/2022 9:32:53 PM
Toluene	ND	0.046		mg/Kg	1	12/30/2022 9:32:53 PM
Ethylbenzene	ND	0.046		mg/Kg	1	12/30/2022 9:32:53 PM
Xylenes, Total	ND	0.092		mg/Kg	1	12/30/2022 9:32:53 PM
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	12/30/2022 9:32:53 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	11000	600		mg/Kg	200	1/4/2023 10:22:48 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-29 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 12:15:00 PM

Lab ID: 2212E44-037

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 4:24:05 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/31/2022 4:24:05 PM
Surr: DNOP	127	21-129		%Rec	1	12/31/2022 4:24:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/30/2022 9:56:28 PM
Surr: BFB	91.6	37.7-212		%Rec	1	12/30/2022 9:56:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/30/2022 9:56:28 PM
Toluene	ND	0.047		mg/Kg	1	12/30/2022 9:56:28 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/30/2022 9:56:28 PM
Xylenes, Total	ND	0.095		mg/Kg	1	12/30/2022 9:56:28 PM
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	12/30/2022 9:56:28 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	250	60		mg/Kg	20	1/5/2023 8:01:47 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-29 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 12:20:00 PM

Lab ID: 2212E44-038

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 9:41:26 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/31/2022 9:41:26 PM
Surr: DNOP	118	21-129		%Rec	1	12/31/2022 9:41:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 11:07:02 PM
Surr: BFB	92.9	37.7-212		%Rec	1	12/30/2022 11:07:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/30/2022 11:07:02 PM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 11:07:02 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 11:07:02 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/30/2022 11:07:02 PM
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	12/30/2022 11:07:02 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	11000	300		mg/Kg	100	1/4/2023 10:35:13 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-29 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 12:25:00 PM

Lab ID: 2212E44-039

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 10:13:10 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/31/2022 10:13:10 PM
Surr: DNOP	116	21-129		%Rec	1	12/31/2022 10:13:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/30/2022 11:30:24 PM
Surr: BFB	91.4	37.7-212		%Rec	1	12/30/2022 11:30:24 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/30/2022 11:30:24 PM
Toluene	ND	0.046		mg/Kg	1	12/30/2022 11:30:24 PM
Ethylbenzene	ND	0.046		mg/Kg	1	12/30/2022 11:30:24 PM
Xylenes, Total	ND	0.092		mg/Kg	1	12/30/2022 11:30:24 PM
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	12/30/2022 11:30:24 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	10000	600		mg/Kg	200	1/4/2023 10:47:37 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-30 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 12:30:00 PM

Lab ID: 2212E44-040

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/31/2022 10:23:47 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/31/2022 10:23:47 PM
Surr: DNOP	128	21-129		%Rec	1	12/31/2022 10:23:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/30/2022 11:53:54 PM
Surr: BFB	90.1	37.7-212		%Rec	1	12/30/2022 11:53:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/30/2022 11:53:54 PM
Toluene	ND	0.050		mg/Kg	1	12/30/2022 11:53:54 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/30/2022 11:53:54 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/30/2022 11:53:54 PM
Surr: 4-Bromofluorobenzene	85.1	70-130		%Rec	1	12/30/2022 11:53:54 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/3/2023 11:18:41 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-30 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 12:35:00 PM

Lab ID: 2212E44-041

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/31/2022 10:34:24 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/31/2022 10:34:24 PM
Surr: DNOP	119	21-129		%Rec	1	12/31/2022 10:34:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 9:18:00 PM
Surr: BFB	105	37.7-212		%Rec	1	12/30/2022 9:18:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/30/2022 9:18:00 PM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 9:18:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 9:18:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/30/2022 9:18:00 PM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	12/30/2022 9:18:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/3/2023 11:31:05 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-30 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 12:40:00 PM

Lab ID: 2212E44-042

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 10:45:02 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/31/2022 10:45:02 PM
Surr: DNOP	140	21-129	S	%Rec	1	12/31/2022 10:45:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 10:17:00 PM
Surr: BFB	104	37.7-212		%Rec	1	12/30/2022 10:17:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/30/2022 10:17:00 PM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 10:17:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 10:17:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/30/2022 10:17:00 PM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	12/30/2022 10:17:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	120	60		mg/Kg	20	1/5/2023 8:14:08 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-31 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 12:45:00 PM

Lab ID: 2212E44-043

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	12/31/2022 10:55:42 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/31/2022 10:55:42 PM
Surr: DNOP	140	21-129	S	%Rec	1	12/31/2022 10:55:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/30/2022 11:16:00 PM
Surr: BFB	105	37.7-212		%Rec	1	12/30/2022 11:16:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/30/2022 11:16:00 PM
Toluene	ND	0.049		mg/Kg	1	12/30/2022 11:16:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/30/2022 11:16:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/30/2022 11:16:00 PM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	12/30/2022 11:16:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	680	60		mg/Kg	20	1/5/2023 8:26:29 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-31 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 12:50:00 PM

Lab ID: 2212E44-044

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/31/2022 11:06:21 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/31/2022 11:06:21 PM
Surr: DNOP	125	21-129		%Rec	1	12/31/2022 11:06:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/30/2022 11:36:00 PM
Surr: BFB	106	37.7-212		%Rec	1	12/30/2022 11:36:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/30/2022 11:36:00 PM
Toluene	ND	0.050		mg/Kg	1	12/30/2022 11:36:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/30/2022 11:36:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/30/2022 11:36:00 PM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	12/30/2022 11:36:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	9300	300		mg/Kg	100	1/4/2023 11:00:01 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-31 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 12:55:00 PM

Lab ID: 2212E44-045

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	12/31/2022 11:17:02 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/31/2022 11:17:02 PM
Surr: DNOP	123	21-129		%Rec	1	12/31/2022 11:17:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/30/2022 11:56:00 PM
Surr: BFB	105	37.7-212		%Rec	1	12/30/2022 11:56:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/30/2022 11:56:00 PM
Toluene	ND	0.048		mg/Kg	1	12/30/2022 11:56:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/30/2022 11:56:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/30/2022 11:56:00 PM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	12/30/2022 11:56:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	10000	300		mg/Kg	100	1/4/2023 11:12:26 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-32 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 1:00:00 PM

Lab ID: 2212E44-046

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 11:27:43 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/31/2022 11:27:43 PM
Surr: DNOP	140	21-129	S	%Rec	1	12/31/2022 11:27:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/31/2022 12:15:00 AM
Surr: BFB	105	37.7-212		%Rec	1	12/31/2022 12:15:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/31/2022 12:15:00 AM
Toluene	ND	0.050		mg/Kg	1	12/31/2022 12:15:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/31/2022 12:15:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/31/2022 12:15:00 AM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	12/31/2022 12:15:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/4/2023 12:57:58 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-32 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 1:05:00 PM

Lab ID: 2212E44-047

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/31/2022 11:38:26 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/31/2022 11:38:26 PM
Surr: DNOP	123	21-129		%Rec	1	12/31/2022 11:38:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/31/2022 12:35:00 AM
Surr: BFB	109	37.7-212		%Rec	1	12/31/2022 12:35:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/31/2022 12:35:00 AM
Toluene	ND	0.050		mg/Kg	1	12/31/2022 12:35:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/31/2022 12:35:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/31/2022 12:35:00 AM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	12/31/2022 12:35:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/4/2023 1:10:23 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-32 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 1:10:00 PM

Lab ID: 2212E44-048

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	12/31/2022 11:49:19 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	12/31/2022 11:49:19 PM
Surr: DNOP	141	21-129	S	%Rec	1	12/31/2022 11:49:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/31/2022 12:55:00 AM
Surr: BFB	109	37.7-212		%Rec	1	12/31/2022 12:55:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/31/2022 12:55:00 AM
Toluene	ND	0.049		mg/Kg	1	12/31/2022 12:55:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/31/2022 12:55:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/31/2022 12:55:00 AM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	12/31/2022 12:55:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/4/2023 1:22:48 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-33 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 1:15:00 PM

Lab ID: 2212E44-049

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	1/1/2023 12:00:10 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/1/2023 12:00:10 AM
Surr: DNOP	130	21-129	S	%Rec	1	1/1/2023 12:00:10 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/31/2022 1:14:00 AM
Surr: BFB	108	37.7-212		%Rec	1	12/31/2022 1:14:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/31/2022 1:14:00 AM
Toluene	ND	0.048		mg/Kg	1	12/31/2022 1:14:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/31/2022 1:14:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/31/2022 1:14:00 AM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	12/31/2022 1:14:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	59		mg/Kg	20	1/4/2023 1:35:13 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-33 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 1:20:00 PM

Lab ID: 2212E44-050

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/1/2023 12:11:02 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/1/2023 12:11:02 AM
Surr: DNOP	115	21-129		%Rec	1	1/1/2023 12:11:02 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/31/2022 1:34:00 AM
Surr: BFB	112	37.7-212		%Rec	1	12/31/2022 1:34:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/31/2022 1:34:00 AM
Toluene	ND	0.049		mg/Kg	1	12/31/2022 1:34:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/31/2022 1:34:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/31/2022 1:34:00 AM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	12/31/2022 1:34:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	9900	300		mg/Kg	100	1/4/2023 11:24:51 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-33 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 1:25:00 PM

Lab ID: 2212E44-051

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/1/2023 12:21:52 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/1/2023 12:21:52 AM
Surr: DNOP	115	21-129		%Rec	1	1/1/2023 12:21:52 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/31/2022 2:13:00 AM
Surr: BFB	109	37.7-212		%Rec	1	12/31/2022 2:13:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/31/2022 2:13:00 AM
Toluene	ND	0.048		mg/Kg	1	12/31/2022 2:13:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/31/2022 2:13:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/31/2022 2:13:00 AM
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	12/31/2022 2:13:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	9400	600		mg/Kg	200	1/4/2023 11:37:15 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-34 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 1:30:00 PM

Lab ID: 2212E44-052

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/1/2023 12:32:42 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/1/2023 12:32:42 AM
Surr: DNOP	132	21-129	S	%Rec	1	1/1/2023 12:32:42 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/31/2022 2:33:00 AM
Surr: BFB	106	37.7-212		%Rec	1	12/31/2022 2:33:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/31/2022 2:33:00 AM
Toluene	ND	0.049		mg/Kg	1	12/31/2022 2:33:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/31/2022 2:33:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/31/2022 2:33:00 AM
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	12/31/2022 2:33:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	1/3/2023 6:52:34 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-34 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 1:35:00 PM

Lab ID: 2212E44-053

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/1/2023 12:43:30 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/1/2023 12:43:30 AM
Surr: DNOP	114	21-129		%Rec	1	1/1/2023 12:43:30 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/31/2022 2:53:00 AM
Surr: BFB	112	37.7-212		%Rec	1	12/31/2022 2:53:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/31/2022 2:53:00 AM
Toluene	ND	0.050		mg/Kg	1	12/31/2022 2:53:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/31/2022 2:53:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/31/2022 2:53:00 AM
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	12/31/2022 2:53:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	1/3/2023 7:29:47 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-34 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 1:40:00 PM

Lab ID: 2212E44-054

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/1/2023 12:54:18 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/1/2023 12:54:18 AM
Surr: DNOP	117	21-129		%Rec	1	1/1/2023 12:54:18 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/31/2022 3:12:00 AM
Surr: BFB	104	37.7-212		%Rec	1	12/31/2022 3:12:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/31/2022 3:12:00 AM
Toluene	ND	0.049		mg/Kg	1	12/31/2022 3:12:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/31/2022 3:12:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/31/2022 3:12:00 AM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	12/31/2022 3:12:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	1/3/2023 7:42:11 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-35 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 1:45:00 PM

Lab ID: 2212E44-055

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	1/1/2023 1:05:00 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/1/2023 1:05:00 AM
Surr: DNOP	129	21-129	S	%Rec	1	1/1/2023 1:05:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/31/2022 3:32:00 AM
Surr: BFB	105	37.7-212		%Rec	1	12/31/2022 3:32:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/31/2022 3:32:00 AM
Toluene	ND	0.048		mg/Kg	1	12/31/2022 3:32:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/31/2022 3:32:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/31/2022 3:32:00 AM
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	12/31/2022 3:32:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	67	60		mg/Kg	20	1/3/2023 8:19:24 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-35 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 1:50:00 PM

Lab ID: 2212E44-056

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/1/2023 1:15:40 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/1/2023 1:15:40 AM
Surr: DNOP	122	21-129		%Rec	1	1/1/2023 1:15:40 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/31/2022 3:52:00 AM
Surr: BFB	106	37.7-212		%Rec	1	12/31/2022 3:52:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/31/2022 3:52:00 AM
Toluene	ND	0.049		mg/Kg	1	12/31/2022 3:52:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/31/2022 3:52:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/31/2022 3:52:00 AM
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	12/31/2022 3:52:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	61		mg/Kg	20	1/3/2023 8:31:48 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-35 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 1:55:00 PM

Lab ID: 2212E44-057

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/1/2023 1:26:18 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/1/2023 1:26:18 AM
Surr: DNOP	116	21-129		%Rec	1	1/1/2023 1:26:18 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/31/2022 4:11:00 AM
Surr: BFB	105	37.7-212		%Rec	1	12/31/2022 4:11:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/31/2022 4:11:00 AM
Toluene	ND	0.049		mg/Kg	1	12/31/2022 4:11:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/31/2022 4:11:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/31/2022 4:11:00 AM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	12/31/2022 4:11:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	130	60		mg/Kg	20	1/3/2023 8:44:12 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-36 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 2:00:00 PM

Lab ID: 2212E44-058

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 5:06:57 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/31/2022 5:06:57 PM
Surr: DNOP	141	21-129	S	%Rec	1	12/31/2022 5:06:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/31/2022 4:31:00 AM
Surr: BFB	109	37.7-212		%Rec	1	12/31/2022 4:31:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	12/31/2022 4:31:00 AM
Toluene	ND	0.049		mg/Kg	1	12/31/2022 4:31:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/31/2022 4:31:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/31/2022 4:31:00 AM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	12/31/2022 4:31:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	1/3/2023 8:56:36 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-36 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 2:15:00 PM

Lab ID: 2212E44-059

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 5:49:42 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/31/2022 5:49:42 PM
Surr: DNOP	135	21-129	S	%Rec	1	12/31/2022 5:49:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/31/2022 4:51:00 AM
Surr: BFB	111	37.7-212		%Rec	1	12/31/2022 4:51:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/31/2022 4:51:00 AM
Toluene	ND	0.050		mg/Kg	1	12/31/2022 4:51:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/31/2022 4:51:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/31/2022 4:51:00 AM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	12/31/2022 4:51:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	1/3/2023 9:09:01 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-36 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 2:10:00 PM

Lab ID: 2212E44-060

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 6:00:22 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/31/2022 6:00:22 PM
Surr: DNOP	128	21-129		%Rec	1	12/31/2022 6:00:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/31/2022 5:10:00 AM
Surr: BFB	110	37.7-212		%Rec	1	12/31/2022 5:10:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	12/31/2022 5:10:00 AM
Toluene	ND	0.050		mg/Kg	1	12/31/2022 5:10:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/31/2022 5:10:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/31/2022 5:10:00 AM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	12/31/2022 5:10:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	1/3/2023 9:21:25 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-37 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 2:15:00 PM

Lab ID: 2212E44-061

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 6:11:00 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/31/2022 6:11:00 PM
Surr: DNOP	121	21-129		%Rec	1	12/31/2022 6:11:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/31/2022 1:27:48 AM
Surr: BFB	91.2	37.7-212		%Rec	1	12/31/2022 1:27:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/31/2022 1:27:48 AM
Toluene	ND	0.050		mg/Kg	1	12/31/2022 1:27:48 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/31/2022 1:27:48 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/31/2022 1:27:48 AM
Surr: 4-Bromofluorobenzene	86.1	70-130		%Rec	1	12/31/2022 1:27:48 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	61		mg/Kg	20	1/3/2023 9:33:50 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-37 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 2:20:00 PM

Lab ID: 2212E44-062

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 6:21:36 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/31/2022 6:21:36 PM
Surr: DNOP	135	21-129	S	%Rec	1	12/31/2022 6:21:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/31/2022 2:38:10 AM
Surr: BFB	91.4	37.7-212		%Rec	1	12/31/2022 2:38:10 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/31/2022 2:38:10 AM
Toluene	ND	0.049		mg/Kg	1	12/31/2022 2:38:10 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/31/2022 2:38:10 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/31/2022 2:38:10 AM
Surr: 4-Bromofluorobenzene	86.4	70-130		%Rec	1	12/31/2022 2:38:10 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	1800	60		mg/Kg	20	1/3/2023 9:46:14 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-37 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 2:25:00 PM

Lab ID: 2212E44-063

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 6:32:11 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/31/2022 6:32:11 PM
Surr: DNOP	117	21-129		%Rec	1	12/31/2022 6:32:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/31/2022 3:48:19 AM
Surr: BFB	89.3	37.7-212		%Rec	1	12/31/2022 3:48:19 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/31/2022 3:48:19 AM
Toluene	ND	0.049		mg/Kg	1	12/31/2022 3:48:19 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/31/2022 3:48:19 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/31/2022 3:48:19 AM
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	12/31/2022 3:48:19 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	180	59		mg/Kg	20	1/3/2023 9:58:39 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-61 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 10:00:00 AM

Lab ID: 2212E44-064

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 6:42:44 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/31/2022 6:42:44 PM
Surr: DNOP	168	21-129	S	%Rec	1	12/31/2022 6:42:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/31/2022 4:11:40 AM
Surr: BFB	90.1	37.7-212		%Rec	1	12/31/2022 4:11:40 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/31/2022 4:11:40 AM
Toluene	ND	0.050		mg/Kg	1	12/31/2022 4:11:40 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/31/2022 4:11:40 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/31/2022 4:11:40 AM
Surr: 4-Bromofluorobenzene	84.5	70-130		%Rec	1	12/31/2022 4:11:40 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	560	60		mg/Kg	20	1/3/2023 10:11:04 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-61 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 10:05:00 AM

Lab ID: 2212E44-065

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 6:53:17 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/31/2022 6:53:17 PM
Surr: DNOP	117	21-129		%Rec	1	12/31/2022 6:53:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/31/2022 4:35:04 AM
Surr: BFB	91.6	37.7-212		%Rec	1	12/31/2022 4:35:04 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/31/2022 4:35:04 AM
Toluene	ND	0.050		mg/Kg	1	12/31/2022 4:35:04 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/31/2022 4:35:04 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/31/2022 4:35:04 AM
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	12/31/2022 4:35:04 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	9500	600		mg/Kg	200	1/4/2023 12:14:28 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-61 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 10:10:00 AM

Lab ID: 2212E44-066

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 7:03:47 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/31/2022 7:03:47 PM
Surr: DNOP	142	21-129	S	%Rec	1	12/31/2022 7:03:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/31/2022 4:58:28 AM
Surr: BFB	90.9	37.7-212		%Rec	1	12/31/2022 4:58:28 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/31/2022 4:58:28 AM
Toluene	ND	0.049		mg/Kg	1	12/31/2022 4:58:28 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/31/2022 4:58:28 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/31/2022 4:58:28 AM
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	12/31/2022 4:58:28 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	7000	300		mg/Kg	100	1/4/2023 12:26:53 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-62 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 10:15:00 AM

Lab ID: 2212E44-067

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/31/2022 7:14:17 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/31/2022 7:14:17 PM
Surr: DNOP	134	21-129	S	%Rec	1	12/31/2022 7:14:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/31/2022 5:21:48 AM
Surr: BFB	92.1	37.7-212		%Rec	1	12/31/2022 5:21:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/31/2022 5:21:48 AM
Toluene	ND	0.050		mg/Kg	1	12/31/2022 5:21:48 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/31/2022 5:21:48 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/31/2022 5:21:48 AM
Surr: 4-Bromofluorobenzene	87.0	70-130		%Rec	1	12/31/2022 5:21:48 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	160	60		mg/Kg	20	1/3/2023 11:13:05 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-62 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 10:20:00 AM

Lab ID: 2212E44-068

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	12/31/2022 7:24:46 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/31/2022 7:24:46 PM
Surr: DNOP	114	21-129		%Rec	1	12/31/2022 7:24:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/31/2022 6:31:59 AM
Surr: BFB	91.1	37.7-212		%Rec	1	12/31/2022 6:31:59 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/31/2022 6:31:59 AM
Toluene	ND	0.049		mg/Kg	1	12/31/2022 6:31:59 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/31/2022 6:31:59 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/31/2022 6:31:59 AM
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	12/31/2022 6:31:59 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	1400	60		mg/Kg	20	1/3/2023 11:25:29 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-62 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 10:25:00 AM

Lab ID: 2212E44-069

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	12/31/2022 7:35:13 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/31/2022 7:35:13 PM
Surr: DNOP	118	21-129		%Rec	1	12/31/2022 7:35:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/31/2022 6:55:25 AM
Surr: BFB	91.4	37.7-212		%Rec	1	12/31/2022 6:55:25 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/31/2022 6:55:25 AM
Toluene	ND	0.050		mg/Kg	1	12/31/2022 6:55:25 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/31/2022 6:55:25 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/31/2022 6:55:25 AM
Surr: 4-Bromofluorobenzene	87.1	70-130		%Rec	1	12/31/2022 6:55:25 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	96	60		mg/Kg	20	1/3/2023 11:37:54 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-63 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 10:30:00 AM

Lab ID: 2212E44-070

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/31/2022 7:45:40 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/31/2022 7:45:40 PM
Surr: DNOP	123	21-129		%Rec	1	12/31/2022 7:45:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/31/2022 7:18:51 AM
Surr: BFB	91.2	37.7-212		%Rec	1	12/31/2022 7:18:51 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/31/2022 7:18:51 AM
Toluene	ND	0.050		mg/Kg	1	12/31/2022 7:18:51 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/31/2022 7:18:51 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/31/2022 7:18:51 AM
Surr: 4-Bromofluorobenzene	86.3	70-130		%Rec	1	12/31/2022 7:18:51 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	530	60		mg/Kg	20	1/3/2023 11:50:19 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-63 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 10:35:00 AM

Lab ID: 2212E44-071

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 7:56:05 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/31/2022 7:56:05 PM
Surr: DNOP	121	21-129		%Rec	1	12/31/2022 7:56:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/31/2022 7:42:10 AM
Surr: BFB	92.4	37.7-212		%Rec	1	12/31/2022 7:42:10 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/31/2022 7:42:10 AM
Toluene	ND	0.049		mg/Kg	1	12/31/2022 7:42:10 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/31/2022 7:42:10 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/31/2022 7:42:10 AM
Surr: 4-Bromofluorobenzene	87.7	70-130		%Rec	1	12/31/2022 7:42:10 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	370	60		mg/Kg	20	1/4/2023 12:27:32 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-63 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 10:40:00 AM

Lab ID: 2212E44-072

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	12/31/2022 8:06:30 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/31/2022 8:06:30 PM
Surr: DNOP	133	21-129	S	%Rec	1	12/31/2022 8:06:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/31/2022 8:05:34 AM
Surr: BFB	89.7	37.7-212		%Rec	1	12/31/2022 8:05:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/31/2022 8:05:34 AM
Toluene	ND	0.049		mg/Kg	1	12/31/2022 8:05:34 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/31/2022 8:05:34 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/31/2022 8:05:34 AM
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	12/31/2022 8:05:34 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	1/4/2023 12:39:56 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-64 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 10:45:00 AM

Lab ID: 2212E44-073

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 8:16:53 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/31/2022 8:16:53 PM
Surr: DNOP	143	21-129	S	%Rec	1	12/31/2022 8:16:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/31/2022 8:28:54 AM
Surr: BFB	88.6	37.7-212		%Rec	1	12/31/2022 8:28:54 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/31/2022 8:28:54 AM
Toluene	ND	0.049		mg/Kg	1	12/31/2022 8:28:54 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/31/2022 8:28:54 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/31/2022 8:28:54 AM
Surr: 4-Bromofluorobenzene	84.4	70-130		%Rec	1	12/31/2022 8:28:54 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	410	60		mg/Kg	20	1/4/2023 2:06:47 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-64 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 10:50:00 AM

Lab ID: 2212E44-074

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/31/2022 8:27:24 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/31/2022 8:27:24 PM
Surr: DNOP	115	21-129		%Rec	1	12/31/2022 8:27:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/31/2022 8:52:16 AM
Surr: BFB	91.5	37.7-212		%Rec	1	12/31/2022 8:52:16 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/31/2022 8:52:16 AM
Toluene	ND	0.049		mg/Kg	1	12/31/2022 8:52:16 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/31/2022 8:52:16 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/31/2022 8:52:16 AM
Surr: 4-Bromofluorobenzene	86.1	70-130		%Rec	1	12/31/2022 8:52:16 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	4200	150		mg/Kg	50	1/4/2023 12:39:17 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-64 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 10:55:00 AM

Lab ID: 2212E44-075

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/31/2022 8:37:56 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/31/2022 8:37:56 PM
Surr: DNOP	118	21-129		%Rec	1	12/31/2022 8:37:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/31/2022 9:15:38 AM
Surr: BFB	91.3	37.7-212		%Rec	1	12/31/2022 9:15:38 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/31/2022 9:15:38 AM
Toluene	ND	0.050		mg/Kg	1	12/31/2022 9:15:38 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/31/2022 9:15:38 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/31/2022 9:15:38 AM
Surr: 4-Bromofluorobenzene	87.1	70-130		%Rec	1	12/31/2022 9:15:38 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	9700	600		mg/Kg	200	1/4/2023 12:51:42 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-65 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 11:00:00 AM

Lab ID: 2212E44-076

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/31/2022 8:48:30 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/31/2022 8:48:30 PM
Surr: DNOP	156	21-129	S	%Rec	1	12/31/2022 8:48:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/31/2022 9:39:02 AM
Surr: BFB	91.6	37.7-212		%Rec	1	12/31/2022 9:39:02 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/31/2022 9:39:02 AM
Toluene	ND	0.050		mg/Kg	1	12/31/2022 9:39:02 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/31/2022 9:39:02 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/31/2022 9:39:02 AM
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	12/31/2022 9:39:02 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	790	60		mg/Kg	20	1/4/2023 2:44:00 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-65 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 11:05:00 AM

Lab ID: 2212E44-077

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/31/2022 8:59:04 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/31/2022 8:59:04 PM
Surr: DNOP	121	21-129		%Rec	1	12/31/2022 8:59:04 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/31/2022 10:02:29 AM
Surr: BFB	89.9	37.7-212		%Rec	1	12/31/2022 10:02:29 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/31/2022 10:02:29 AM
Toluene	ND	0.049		mg/Kg	1	12/31/2022 10:02:29 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/31/2022 10:02:29 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/31/2022 10:02:29 AM
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	12/31/2022 10:02:29 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	9600	590		mg/Kg	200	1/4/2023 1:04:06 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-65 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 11:10:00 AM

Lab ID: 2212E44-078

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/2/2023 2:11:26 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/2/2023 2:11:26 PM
Surr: DNOP	110	21-129		%Rec	1	1/2/2023 2:11:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/31/2022 10:49:25 AM
Surr: BFB	91.0	37.7-212		%Rec	1	12/31/2022 10:49:25 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/31/2022 10:49:25 AM
Toluene	ND	0.050		mg/Kg	1	12/31/2022 10:49:25 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/31/2022 10:49:25 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/31/2022 10:49:25 AM
Surr: 4-Bromofluorobenzene	86.4	70-130		%Rec	1	12/31/2022 10:49:25 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	3000	150		mg/Kg	50	1/4/2023 1:16:31 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-66 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 11:15:00 AM

Lab ID: 2212E44-079

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/2/2023 2:21:59 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/2/2023 2:21:59 PM
Surr: DNOP	113	21-129		%Rec	1	1/2/2023 2:21:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/31/2022 11:12:55 AM
Surr: BFB	91.1	37.7-212		%Rec	1	12/31/2022 11:12:55 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/31/2022 11:12:55 AM
Toluene	ND	0.049		mg/Kg	1	12/31/2022 11:12:55 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/31/2022 11:12:55 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/31/2022 11:12:55 AM
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	12/31/2022 11:12:55 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	220	60		mg/Kg	20	1/4/2023 3:46:02 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-66 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 11:20:00 AM

Lab ID: 2212E44-080

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/2/2023 2:32:31 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/2/2023 2:32:31 PM
Surr: DNOP	110	21-129		%Rec	1	1/2/2023 2:32:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/31/2022 11:36:28 AM
Surr: BFB	94.4	37.7-212		%Rec	1	12/31/2022 11:36:28 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/31/2022 11:36:28 AM
Toluene	ND	0.050		mg/Kg	1	12/31/2022 11:36:28 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/31/2022 11:36:28 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/31/2022 11:36:28 AM
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	12/31/2022 11:36:28 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	960	60		mg/Kg	20	1/4/2023 3:58:27 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-66 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 11:25:00 AM

Lab ID: 2212E44-081

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/2/2023 2:43:05 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/2/2023 2:43:05 PM
Surr: DNOP	109	21-129		%Rec	1	1/2/2023 2:43:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/3/2023 11:38:00 AM
Surr: BFB	109	37.7-212		%Rec	1	1/3/2023 11:38:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/3/2023 11:38:00 AM
Toluene	ND	0.050		mg/Kg	1	1/3/2023 11:38:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/3/2023 11:38:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/3/2023 11:38:00 AM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/3/2023 11:38:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	2200	150		mg/Kg	50	1/4/2023 1:28:55 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-67 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 11:30:00 AM

Lab ID: 2212E44-082

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/2/2023 3:58:04 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/2/2023 3:58:04 PM
Surr: DNOP	130	21-129	S	%Rec	1	1/2/2023 3:58:04 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/3/2023 12:37:00 PM
Surr: BFB	113	37.7-212		%Rec	1	1/3/2023 12:37:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/3/2023 12:37:00 PM
Toluene	ND	0.049		mg/Kg	1	1/3/2023 12:37:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/3/2023 12:37:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/3/2023 12:37:00 PM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/3/2023 12:37:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	3000	150		mg/Kg	50	1/4/2023 1:41:20 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-67 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 11:35:00 AM

Lab ID: 2212E44-083

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/2/2023 4:08:38 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/2/2023 4:08:38 PM
Surr: DNOP	115	21-129		%Rec	1	1/2/2023 4:08:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/3/2023 1:38:00 PM
Surr: BFB	108	37.7-212		%Rec	1	1/3/2023 1:38:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/3/2023 1:38:00 PM
Toluene	ND	0.049		mg/Kg	1	1/3/2023 1:38:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/3/2023 1:38:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/3/2023 1:38:00 PM
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	1/3/2023 1:38:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	11000	600		mg/Kg	200	1/4/2023 1:53:44 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-67 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 11:40:00 AM

Lab ID: 2212E44-084

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/2/2023 4:19:14 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/2/2023 4:19:14 PM
Surr: DNOP	110	21-129		%Rec	1	1/2/2023 4:19:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/3/2023 1:57:00 PM
Surr: BFB	103	37.7-212		%Rec	1	1/3/2023 1:57:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/3/2023 1:57:00 PM
Toluene	ND	0.050		mg/Kg	1	1/3/2023 1:57:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/3/2023 1:57:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/3/2023 1:57:00 PM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	1/3/2023 1:57:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	11000	600		mg/Kg	200	1/4/2023 2:06:08 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-12 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 9:00:00 AM

Lab ID: 2212E44-085

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	190	15		mg/Kg	1	1/2/2023 4:29:50 PM
Motor Oil Range Organics (MRO)	130	49		mg/Kg	1	1/2/2023 4:29:50 PM
Surr: DNOP	110	21-129		%Rec	1	1/2/2023 4:29:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/3/2023 2:17:00 PM
Surr: BFB	109	37.7-212		%Rec	1	1/3/2023 2:17:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/3/2023 2:17:00 PM
Toluene	ND	0.049		mg/Kg	1	1/3/2023 2:17:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/3/2023 2:17:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/3/2023 2:17:00 PM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/3/2023 2:17:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	13000	600		mg/Kg	200	1/4/2023 2:43:21 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-12 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 9:05:00 AM

Lab ID: 2212E44-086

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/2/2023 4:50:58 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/2/2023 4:50:58 PM
Surr: DNOP	107	21-129		%Rec	1	1/2/2023 4:50:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/3/2023 2:37:00 PM
Surr: BFB	112	37.7-212		%Rec	1	1/3/2023 2:37:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/3/2023 2:37:00 PM
Toluene	ND	0.049		mg/Kg	1	1/3/2023 2:37:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/3/2023 2:37:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/3/2023 2:37:00 PM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/3/2023 2:37:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	9300	600		mg/Kg	200	1/4/2023 2:55:45 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-12 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/22/2022 9:10:00 AM

Lab ID: 2212E44-087

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/2/2023 5:01:35 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/2/2023 5:01:35 PM
Surr: DNOP	110	21-129		%Rec	1	1/2/2023 5:01:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/3/2023 2:56:00 PM
Surr: BFB	106	37.7-212		%Rec	1	1/3/2023 2:56:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/3/2023 2:56:00 PM
Toluene	ND	0.049		mg/Kg	1	1/3/2023 2:56:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/3/2023 2:56:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/3/2023 2:56:00 PM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/3/2023 2:56:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	11000	600		mg/Kg	200	1/4/2023 3:08:09 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-68 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 11:45:00 AM

Lab ID: 2212E44-088

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/2/2023 5:12:12 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/2/2023 5:12:12 PM
Surr: DNOP	108	21-129		%Rec	1	1/2/2023 5:12:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/3/2023 3:16:00 PM
Surr: BFB	111	37.7-212		%Rec	1	1/3/2023 3:16:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/3/2023 3:16:00 PM
Toluene	ND	0.050		mg/Kg	1	1/3/2023 3:16:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/3/2023 3:16:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/3/2023 3:16:00 PM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/3/2023 3:16:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	4900	150		mg/Kg	50	1/4/2023 3:20:33 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-68 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 11:50:00 AM

Lab ID: 2212E44-089

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	1/2/2023 5:22:51 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/2/2023 5:22:51 PM
Surr: DNOP	109	21-129		%Rec	1	1/2/2023 5:22:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/3/2023 3:36:00 PM
Surr: BFB	109	37.7-212		%Rec	1	1/3/2023 3:36:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/3/2023 3:36:00 PM
Toluene	ND	0.049		mg/Kg	1	1/3/2023 3:36:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/3/2023 3:36:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/3/2023 3:36:00 PM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/3/2023 3:36:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	67	60		mg/Kg	20	1/4/2023 6:14:56 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-68 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 11:55:00 AM

Lab ID: 2212E44-090

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/2/2023 5:33:29 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/2/2023 5:33:29 PM
Surr: DNOP	107	21-129		%Rec	1	1/2/2023 5:33:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/3/2023 3:56:00 PM
Surr: BFB	112	37.7-212		%Rec	1	1/3/2023 3:56:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/3/2023 3:56:00 PM
Toluene	ND	0.049		mg/Kg	1	1/3/2023 3:56:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/3/2023 3:56:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/3/2023 3:56:00 PM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/3/2023 3:56:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	70	60		mg/Kg	20	1/4/2023 6:27:20 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-69 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 12:00:00 PM

Lab ID: 2212E44-091

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/2/2023 5:44:06 PM
Motor Oil Range Organics (MRO)	120	50		mg/Kg	1	1/2/2023 5:44:06 PM
Surr: DNOP	101	21-129		%Rec	1	1/2/2023 5:44:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/3/2023 5:53:00 PM
Surr: BFB	106	37.7-212		%Rec	1	1/3/2023 5:53:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/3/2023 5:53:00 PM
Toluene	ND	0.049		mg/Kg	1	1/3/2023 5:53:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/3/2023 5:53:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/3/2023 5:53:00 PM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/3/2023 5:53:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	560	60		mg/Kg	20	1/4/2023 10:59:15 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-69 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 12:05:00 PM

Lab ID: 2212E44-092

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/2/2023 6:05:08 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/2/2023 6:05:08 PM
Surr: DNOP	105	21-129		%Rec	1	1/2/2023 6:05:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/3/2023 6:13:00 PM
Surr: BFB	109	37.7-212		%Rec	1	1/3/2023 6:13:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/3/2023 6:13:00 PM
Toluene	ND	0.049		mg/Kg	1	1/3/2023 6:13:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/3/2023 6:13:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/3/2023 6:13:00 PM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/3/2023 6:13:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	9900	600		mg/Kg	200	1/5/2023 11:17:53 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-69 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 12:10:00 PM

Lab ID: 2212E44-093

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/2/2023 6:15:49 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/2/2023 6:15:49 PM
Surr: DNOP	105	21-129		%Rec	1	1/2/2023 6:15:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/3/2023 6:33:00 PM
Surr: BFB	106	37.7-212		%Rec	1	1/3/2023 6:33:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/3/2023 6:33:00 PM
Toluene	ND	0.049		mg/Kg	1	1/3/2023 6:33:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/3/2023 6:33:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/3/2023 6:33:00 PM
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	1/3/2023 6:33:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	8300	300		mg/Kg	100	1/5/2023 11:30:18 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-70 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 12:15:00 PM

Lab ID: 2212E44-094

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/3/2023 2:04:51 PM
Motor Oil Range Organics (MRO)	57	49		mg/Kg	1	1/3/2023 2:04:51 PM
Surr: DNOP	126	21-129		%Rec	1	1/3/2023 2:04:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/3/2023 6:53:00 PM
Surr: BFB	110	37.7-212		%Rec	1	1/3/2023 6:53:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/3/2023 6:53:00 PM
Toluene	ND	0.050		mg/Kg	1	1/3/2023 6:53:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/3/2023 6:53:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/3/2023 6:53:00 PM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/3/2023 6:53:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	350	60		mg/Kg	20	1/4/2023 12:50:56 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-70 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 12:20:00 PM

Lab ID: 2212E44-095

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/3/2023 11:52:38 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/3/2023 11:52:38 AM
Surr: DNOP	107	21-129		%Rec	1	1/3/2023 11:52:38 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/3/2023 7:12:00 PM
Surr: BFB	108	37.7-212		%Rec	1	1/3/2023 7:12:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/3/2023 7:12:00 PM
Toluene	ND	0.050		mg/Kg	1	1/3/2023 7:12:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/3/2023 7:12:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/3/2023 7:12:00 PM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/3/2023 7:12:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	9900	600		mg/Kg	200	1/5/2023 11:42:42 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-70 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 12:25:00 PM

Lab ID: 2212E44-096

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/3/2023 12:03:11 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/3/2023 12:03:11 PM
Surr: DNOP	109	21-129		%Rec	1	1/3/2023 12:03:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/3/2023 7:32:00 PM
Surr: BFB	107	37.7-212		%Rec	1	1/3/2023 7:32:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/3/2023 7:32:00 PM
Toluene	ND	0.049		mg/Kg	1	1/3/2023 7:32:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/3/2023 7:32:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/3/2023 7:32:00 PM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/3/2023 7:32:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	11000	600		mg/Kg	200	1/5/2023 11:55:07 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-71 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 12:30:00 PM

Lab ID: 2212E44-097

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/4/2023 1:34:54 PM
Motor Oil Range Organics (MRO)	84	49		mg/Kg	1	1/4/2023 1:34:54 PM
Surr: DNOP	116	21-129		%Rec	1	1/4/2023 1:34:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/3/2023 7:52:00 PM
Surr: BFB	109	37.7-212		%Rec	1	1/3/2023 7:52:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/3/2023 7:52:00 PM
Toluene	ND	0.050		mg/Kg	1	1/3/2023 7:52:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/3/2023 7:52:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/3/2023 7:52:00 PM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	1/3/2023 7:52:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	460	60		mg/Kg	20	1/4/2023 1:28:11 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-71 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 12:35:00 PM

Lab ID: 2212E44-098

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/3/2023 12:24:22 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/3/2023 12:24:22 PM
Surr: DNOP	100	21-129		%Rec	1	1/3/2023 12:24:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/3/2023 8:11:00 PM
Surr: BFB	106	37.7-212		%Rec	1	1/3/2023 8:11:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/3/2023 8:11:00 PM
Toluene	ND	0.048		mg/Kg	1	1/3/2023 8:11:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/3/2023 8:11:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/3/2023 8:11:00 PM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/3/2023 8:11:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	440	60		mg/Kg	20	1/4/2023 1:40:36 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-71 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 12:40:00 PM

Lab ID: 2212E44-099

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/3/2023 12:34:58 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/3/2023 12:34:58 PM
Surr: DNOP	104	21-129		%Rec	1	1/3/2023 12:34:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/3/2023 8:31:00 PM
Surr: BFB	102	37.7-212		%Rec	1	1/3/2023 8:31:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/3/2023 8:31:00 PM
Toluene	ND	0.049		mg/Kg	1	1/3/2023 8:31:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/3/2023 8:31:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/3/2023 8:31:00 PM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	1/3/2023 8:31:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	540	60		mg/Kg	20	1/4/2023 1:53:00 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-72 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 12:45:00 PM

Lab ID: 2212E44-100

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/3/2023 12:45:33 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/3/2023 12:45:33 PM
Surr: DNOP	105	21-129		%Rec	1	1/3/2023 12:45:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/3/2023 8:51:00 PM
Surr: BFB	109	37.7-212		%Rec	1	1/3/2023 8:51:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/3/2023 8:51:00 PM
Toluene	ND	0.050		mg/Kg	1	1/3/2023 8:51:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/3/2023 8:51:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/3/2023 8:51:00 PM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/3/2023 8:51:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	370	60		mg/Kg	20	1/4/2023 2:05:25 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-72 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 12:50:00 PM

Lab ID: 2212E44-101

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/3/2023 12:56:13 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/3/2023 12:56:13 PM
Surr: DNOP	98.5	21-129		%Rec	1	1/3/2023 12:56:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/3/2023 10:49:00 PM
Surr: BFB	104	37.7-212		%Rec	1	1/3/2023 10:49:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/3/2023 10:49:00 PM
Toluene	ND	0.049		mg/Kg	1	1/3/2023 10:49:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/3/2023 10:49:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/3/2023 10:49:00 PM
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	1/3/2023 10:49:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	260	60		mg/Kg	20	1/4/2023 2:17:50 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2212E44

Date Reported: 1/12/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-72 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/21/2022 12:55:00 PM

Lab ID: 2212E44-102

Matrix: SOIL

Received Date: 12/29/2022 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/3/2023 1:06:51 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/3/2023 1:06:51 PM
Surr: DNOP	106	21-129		%Rec	1	1/3/2023 1:06:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/3/2023 11:48:00 PM
Surr: BFB	106	37.7-212		%Rec	1	1/3/2023 11:48:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/3/2023 11:48:00 PM
Toluene	ND	0.049		mg/Kg	1	1/3/2023 11:48:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/3/2023 11:48:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/3/2023 11:48:00 PM
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	1/3/2023 11:48:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	98	60		mg/Kg	20	1/5/2023 11:05:28 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212E44

12-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline Spill

Sample ID: MB-72391	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 72391		RunNo: 93647							
Prep Date: 12/30/2022	Analysis Date: 12/30/2022		SeqNo: 3380712		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72391	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 72391		RunNo: 93647							
Prep Date: 12/30/2022	Analysis Date: 12/30/2022		SeqNo: 3380713		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	101	90	110			

Sample ID: MB-72413	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 72413		RunNo: 93692							
Prep Date: 1/3/2023	Analysis Date: 1/3/2023		SeqNo: 3381942		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72413	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 72413		RunNo: 93692							
Prep Date: 1/3/2023	Analysis Date: 1/3/2023		SeqNo: 3381943		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Sample ID: MB-72414	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 72414		RunNo: 93692							
Prep Date: 1/3/2023	Analysis Date: 1/3/2023		SeqNo: 3381972		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72414	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 72414		RunNo: 93692							
Prep Date: 1/3/2023	Analysis Date: 1/3/2023		SeqNo: 3381973		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.8	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212E44

12-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline Spill

Sample ID: MB-72427	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72427	RunNo: 93696								
Prep Date: 1/3/2023	Analysis Date: 1/3/2023	SeqNo: 3382053 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72427	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72427	RunNo: 93696								
Prep Date: 1/3/2023	Analysis Date: 1/3/2023	SeqNo: 3382054 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	102	90	110			

Sample ID: MB-72428	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72428	RunNo: 93696								
Prep Date: 1/3/2023	Analysis Date: 1/4/2023	SeqNo: 3382083 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72428	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72428	RunNo: 93696								
Prep Date: 1/3/2023	Analysis Date: 1/4/2023	SeqNo: 3382084 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	16	1.5	15.00	0	105	90	110			

Sample ID: MB-72432	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72432	RunNo: 93724								
Prep Date: 1/4/2023	Analysis Date: 1/4/2023	SeqNo: 3383193 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72432	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72432	RunNo: 93724								
Prep Date: 1/4/2023	Analysis Date: 1/4/2023	SeqNo: 3383194 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.8	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212E44

12-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline Spill

Sample ID: LCS-72383	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 72383		RunNo: 93644							
Prep Date: 12/29/2022	Analysis Date: 12/30/2022		SeqNo: 3379607		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	15	50.00	0	96.0	64.4	127			
Surr: DNOP	6.2		5.000		125	21	129			

Sample ID: MB-72383	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 72383		RunNo: 93644							
Prep Date: 12/29/2022	Analysis Date: 12/30/2022		SeqNo: 3379608		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		121	21	129			

Sample ID: 2212E44-018AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH22-22 4'	Batch ID: 72390		RunNo: 93660							
Prep Date: 12/30/2022	Analysis Date: 12/31/2022		SeqNo: 3380168		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	65	15	49.41	0	132	36.1	154			
Surr: DNOP	8.2		4.941		165	21	129			S

Sample ID: 2212E44-018AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH22-22 4'	Batch ID: 72390		RunNo: 93660							
Prep Date: 12/30/2022	Analysis Date: 12/31/2022		SeqNo: 3380169		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	61	15	48.92	0	125	36.1	154	6.47	33.9	
Surr: DNOP	7.9		4.892		161	21	129	0	0	S

Sample ID: 2212E44-038AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH22-29 2'	Batch ID: 72400		RunNo: 93660							
Prep Date: 12/30/2022	Analysis Date: 12/31/2022		SeqNo: 3380191		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	14	46.95	0	95.3	36.1	154			
Surr: DNOP	5.8		4.695		124	21	129			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212E44

12-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline Spill

Sample ID: 2212E44-038AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-29 2'	Batch ID: 72400	RunNo: 93660								
Prep Date: 12/30/2022	Analysis Date: 12/31/2022	SeqNo: 3380192 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	15	48.73	0	87.9	36.1	154	4.32	33.9	
Surr: DNOP	5.7		4.873		118	21	129	0	0	

Sample ID: 2212E44-058AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-36 0'	Batch ID: 72402	RunNo: 93660								
Prep Date: 12/30/2022	Analysis Date: 12/31/2022	SeqNo: 3380213 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	14	47.94	0	107	36.1	154			
Surr: DNOP	6.4		4.794		134	21	129			S

Sample ID: 2212E44-058AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-36 0'	Batch ID: 72402	RunNo: 93660								
Prep Date: 12/30/2022	Analysis Date: 12/31/2022	SeqNo: 3380214 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	14	47.80	0	107	36.1	154	0.0961	33.9	
Surr: DNOP	6.5		4.780		135	21	129	0	0	S

Sample ID: LCS-72390	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72390	RunNo: 93660								
Prep Date: 12/30/2022	Analysis Date: 12/31/2022	SeqNo: 3380234 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	97.4	64.4	127			
Surr: DNOP	6.6		5.000		131	21	129			S

Sample ID: LCS-72400	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72400	RunNo: 93660								
Prep Date: 12/30/2022	Analysis Date: 12/31/2022	SeqNo: 3380235 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	98.0	64.4	127			
Surr: DNOP	6.2		5.000		125	21	129			

Sample ID: LCS-72402	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72402	RunNo: 93660								
Prep Date: 12/30/2022	Analysis Date: 12/31/2022	SeqNo: 3380236 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212E44

12-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline Spill

Sample ID: LCS-72402	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 72402		RunNo: 93660							
Prep Date: 12/30/2022	Analysis Date: 12/31/2022		SeqNo: 3380236		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.00	0	98.4	64.4	127			
Surr: DNOP	6.3		5.000		126	21	129			

Sample ID: MB-72390	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 72390		RunNo: 93660							
Prep Date: 12/30/2022	Analysis Date: 12/31/2022		SeqNo: 3380237		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		115	21	129			

Sample ID: MB-72400	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 72400		RunNo: 93660							
Prep Date: 12/30/2022	Analysis Date: 12/31/2022		SeqNo: 3380238		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		122	21	129			

Sample ID: MB-72402	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 72402		RunNo: 93660							
Prep Date: 12/30/2022	Analysis Date: 12/31/2022		SeqNo: 3380239		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		119	21	129			

Sample ID: LCS-72404	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 72404		RunNo: 93671							
Prep Date: 1/1/2023	Analysis Date: 1/2/2023		SeqNo: 3380882		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	15	50.00	0	101	64.4	127			
Surr: DNOP	7.0		5.000		140	21	129			S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212E44

12-Jan-23

Client: Devon Energy**Project:** East Pecos Pipeline Spill

Sample ID: MB-72404	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72404	RunNo: 93671								
Prep Date: 1/1/2023	Analysis Date: 1/2/2023	SeqNo: 3380883 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	21	129			

Sample ID: MB-72404	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72404	RunNo: 93673								
Prep Date: 1/1/2023	Analysis Date: 1/3/2023	SeqNo: 3381070 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		97.0	21	129			

Sample ID: LCS-72405	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72405	RunNo: 93677								
Prep Date: 1/2/2023	Analysis Date: 1/3/2023	SeqNo: 3381146 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	15	50.00	0	85.4	64.4	127			
Surr: DNOP	5.6		5.000		111	21	129			

Sample ID: MB-72405	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72405	RunNo: 93677								
Prep Date: 1/2/2023	Analysis Date: 1/3/2023	SeqNo: 3381148 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00		99.2	21	129			

Sample ID: 2212E44-094AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-70 0'	Batch ID: 72405	RunNo: 93677								
Prep Date: 1/2/2023	Analysis Date: 1/3/2023	SeqNo: 3381883 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	14	47.13	0	92.6	36.1	154			
Surr: DNOP	5.6		4.713		119	21	129			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212E44

12-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline Spill

Sample ID: 2212E44-094AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-70 0'	Batch ID: 72405	RunNo: 93677								
Prep Date: 1/2/2023	Analysis Date: 1/3/2023	SeqNo: 3381884 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	15	50.10	0	98.5	36.1	154	12.3	33.9	
Surr: DNOP	6.4		5.010		127	21	129	0	0	

Sample ID: MB-72404	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72404	RunNo: 93736								
Prep Date: 1/1/2023	Analysis Date: 1/3/2023	SeqNo: 3383540 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		97.6	21	129			

Sample ID: MB-72404	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72404	RunNo: 93821								
Prep Date: 1/1/2023	Analysis Date: 1/9/2023	SeqNo: 3386940 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		88.4	21	129			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212E44

12-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline Spill

Sample ID: ics-72377	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 72377		RunNo: 93664							
Prep Date: 12/29/2022	Analysis Date: 12/30/2022		SeqNo: 3380310		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	72.3	137			
Surr: BFB	2300		1000		230	37.7	212			S

Sample ID: mb-72377	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 72377		RunNo: 93664							
Prep Date: 12/29/2022	Analysis Date: 12/30/2022		SeqNo: 3380311		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		110	37.7	212			

Sample ID: ics-72382	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 72382		RunNo: 93664							
Prep Date: 12/29/2022	Analysis Date: 12/30/2022		SeqNo: 3380334		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	72.3	137			
Surr: BFB	2300		1000		230	37.7	212			S

Sample ID: mb-72382	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 72382		RunNo: 93664							
Prep Date: 12/29/2022	Analysis Date: 12/30/2022		SeqNo: 3380335		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		108	37.7	212			

Sample ID: 2212e44-041ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH22-30 2'	Batch ID: 72382		RunNo: 93664							
Prep Date: 12/29/2022	Analysis Date: 12/30/2022		SeqNo: 3380337		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.56	0	106	70	130			
Surr: BFB	2300		982.3		235	37.7	212			S

Sample ID: 2212e44-041amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH22-30 2'	Batch ID: 72382		RunNo: 93664							
Prep Date: 12/29/2022	Analysis Date: 12/30/2022		SeqNo: 3380338		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212E44

12-Jan-23

Client: Devon Energy**Project:** East Pecos Pipeline Spill

Sample ID: 2212e44-041amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-30 2'	Batch ID: 72382	RunNo: 93664								
Prep Date: 12/29/2022	Analysis Date: 12/30/2022	SeqNo: 3380338 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.9	24.73	0	113	70	130	7.33	20	
Surr: BFB	2500		989.1		250	37.7	212	0	0	S

Sample ID: 2212e44-021ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-23 4'	Batch ID: 72379	RunNo: 93665								
Prep Date: 12/29/2022	Analysis Date: 12/30/2022	SeqNo: 3380425 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	24.80	0	112	70	130			
Surr: BFB	2000		992.1		198	37.7	212			

Sample ID: 2212e44-021amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-23 4'	Batch ID: 72379	RunNo: 93665								
Prep Date: 12/29/2022	Analysis Date: 12/30/2022	SeqNo: 3380426 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.9	24.73	0	113	70	130	0.734	20	
Surr: BFB	2000		989.1		198	37.7	212	0	0	

Sample ID: 2212e44-061ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-37 0'	Batch ID: 72384	RunNo: 93665								
Prep Date: 12/29/2022	Analysis Date: 12/31/2022	SeqNo: 3380447 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	24.98	0	108	70	130			
Surr: BFB	2000		999.0		196	37.7	212			

Sample ID: 2212e44-061amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-37 0'	Batch ID: 72384	RunNo: 93665								
Prep Date: 12/29/2022	Analysis Date: 12/31/2022	SeqNo: 3380448 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.68	0	106	70	130	2.76	20	
Surr: BFB	2000		987.2		201	37.7	212	0	0	

Sample ID: lcs-72379	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 72379	RunNo: 93665								
Prep Date: 12/29/2022	Analysis Date: 12/30/2022	SeqNo: 3380473 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212E44

12-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline Spill

Sample ID: ics-72379	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 72379			RunNo: 93665						
Prep Date: 12/29/2022	Analysis Date: 12/30/2022			SeqNo: 3380473		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	72.3	137			
Surr: BFB	2000		1000		198	37.7	212			

Sample ID: ics-72384	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 72384			RunNo: 93665						
Prep Date: 12/29/2022	Analysis Date: 12/31/2022			SeqNo: 3380474		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	72.3	137			
Surr: BFB	1900		1000		194	37.7	212			

Sample ID: mb-72379	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 72379			RunNo: 93665						
Prep Date: 12/29/2022	Analysis Date: 12/30/2022			SeqNo: 3380476		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		91.5	37.7	212			

Sample ID: mb-72384	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 72384			RunNo: 93665						
Prep Date: 12/29/2022	Analysis Date: 12/31/2022			SeqNo: 3380477		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		90.8	37.7	212			

Sample ID: LCS-72392	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 72392			RunNo: 93680						
Prep Date: 12/30/2022	Analysis Date: 1/3/2023			SeqNo: 3381332		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	72.3	137			
Surr: BFB	2200		1000		225	37.7	212			S

Sample ID: mb-72392	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 72392			RunNo: 93680						
Prep Date: 12/30/2022	Analysis Date: 1/3/2023			SeqNo: 3381333		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212E44

12-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline Spill

Sample ID: mb-72392	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 72392			RunNo: 93680						
Prep Date: 12/30/2022	Analysis Date: 1/3/2023			SeqNo: 3381333		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		110	37.7	212			

Sample ID: 2212E44-081ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH22-66 4'	Batch ID: 72392			RunNo: 93680						
Prep Date: 12/30/2022	Analysis Date: 1/3/2023			SeqNo: 3381335		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	24.80	0	104	70	130			
Surr: BFB	2400		992.1		239	37.7	212			S

Sample ID: 2212E44-081amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH22-66 4'	Batch ID: 72392			RunNo: 93680						
Prep Date: 12/30/2022	Analysis Date: 1/3/2023			SeqNo: 3381336		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	24.80	0	104	70	130	0.653	20	
Surr: BFB	2300		992.1		232	37.7	212	0	0	S

Sample ID: 2212E44-001ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH22-16 0'	Batch ID: 72377			RunNo: 93680						
Prep Date: 12/29/2022	Analysis Date: 1/3/2023			SeqNo: 3381346		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	24.83	0	93.0	70	130			
Surr: BFB	2200		993.0		222	37.7	212			S

Sample ID: 2212E44-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH22-16 0'	Batch ID: 72377			RunNo: 93680						
Prep Date: 12/29/2022	Analysis Date: 1/3/2023			SeqNo: 3381347		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.58	0	91.0	70	130	3.16	20	
Surr: BFB	2100		983.3		215	37.7	212	0	0	S

Sample ID: LCS-72396	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 72396			RunNo: 93680						
Prep Date: 12/30/2022	Analysis Date: 1/3/2023			SeqNo: 3381358		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212E44

12-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline Spill

Sample ID: LCS-72396	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 72396	RunNo: 93680								
Prep Date: 12/30/2022	Analysis Date: 1/3/2023	SeqNo: 3381358 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	72.3	137			
Surr: BFB	2400		1000		238	37.7	212			S

Sample ID: mb-72396	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 72396	RunNo: 93680								
Prep Date: 12/30/2022	Analysis Date: 1/3/2023	SeqNo: 3381359 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		108	37.7	212			

Sample ID: 2212E44-101ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-72 2'	Batch ID: 72396	RunNo: 93680								
Prep Date: 12/30/2022	Analysis Date: 1/3/2023	SeqNo: 3381361 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.34	0	101	70	130			
Surr: BFB	2200		973.7		229	37.7	212			S

Sample ID: 2212E44-101amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-72 2'	Batch ID: 72396	RunNo: 93680								
Prep Date: 12/30/2022	Analysis Date: 1/3/2023	SeqNo: 3381362 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	24.18	0	102	70	130	0.228	20	
Surr: BFB	2300		967.1		234	37.7	212	0	0	S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212E44

12-Jan-23

Client: Devon Energy**Project:** East Pecos Pipeline Spill

Sample ID: ics-72377	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72377		RunNo: 93664							
Prep Date: 12/29/2022	Analysis Date: 12/30/2022		SeqNo: 3380364		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	114	80	120			
Toluene	1.2	0.050	1.000	0	116	80	120			
Ethylbenzene	1.2	0.050	1.000	0	116	80	120			
Xylenes, Total	3.5	0.10	3.000	0	116	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		122	70	130			

Sample ID: mb-72377	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72377		RunNo: 93664							
Prep Date: 12/29/2022	Analysis Date: 12/30/2022		SeqNo: 3380365		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		122	70	130			

Sample ID: ics-72382	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72382		RunNo: 93664							
Prep Date: 12/29/2022	Analysis Date: 12/30/2022		SeqNo: 3380388		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	111	80	120			
Toluene	1.1	0.050	1.000	0	112	80	120			
Ethylbenzene	1.1	0.050	1.000	0	112	80	120			
Xylenes, Total	3.4	0.10	3.000	0	112	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		123	70	130			

Sample ID: mb-72382	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72382		RunNo: 93664							
Prep Date: 12/29/2022	Analysis Date: 12/30/2022		SeqNo: 3380389		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		120	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212E44

12-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline Spill

Sample ID: 2212e44-042ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-30 4'	Batch ID: 72382		RunNo: 93664							
Prep Date: 12/29/2022	Analysis Date: 12/30/2022		SeqNo: 3380392		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	0.9852	0	123	68.8	120			S
Toluene	1.2	0.049	0.9852	0	125	73.6	124			S
Ethylbenzene	1.2	0.049	0.9852	0	126	72.7	129			
Xylenes, Total	3.7	0.099	2.956	0	126	75.7	126			
Surr: 4-Bromofluorobenzene	1.2		0.9852		118	70	130			

Sample ID: 2212e44-042amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-30 4'	Batch ID: 72382		RunNo: 93664							
Prep Date: 12/29/2022	Analysis Date: 12/30/2022		SeqNo: 3380393		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	0.9940	0	116	68.8	120	4.81	20	
Toluene	1.2	0.050	0.9940	0	118	73.6	124	4.44	20	
Ethylbenzene	1.2	0.050	0.9940	0	118	72.7	129	5.15	20	
Xylenes, Total	3.6	0.099	2.982	0	119	75.7	126	4.63	20	
Surr: 4-Bromofluorobenzene	1.2		0.9940		120	70	130	0	0	

Sample ID: 2212e44-022ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-24 0'	Batch ID: 72379		RunNo: 93665							
Prep Date: 12/29/2022	Analysis Date: 12/30/2022		SeqNo: 3380487		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.023	0.9320	0	112	68.8	120			
Toluene	1.1	0.047	0.9320	0	114	73.6	124			
Ethylbenzene	1.1	0.047	0.9320	0	117	72.7	129			
Xylenes, Total	3.3	0.093	2.796	0.01742	116	75.7	126			
Surr: 4-Bromofluorobenzene	0.82		0.9320		87.9	70	130			

Sample ID: 2212e44-022amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-24 0'	Batch ID: 72379		RunNo: 93665							
Prep Date: 12/29/2022	Analysis Date: 12/30/2022		SeqNo: 3380488		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.023	0.9337	0	106	68.8	120	5.38	20	
Toluene	1.0	0.047	0.9337	0	108	73.6	124	4.74	20	
Ethylbenzene	1.0	0.047	0.9337	0	110	72.7	129	6.16	20	
Xylenes, Total	3.1	0.093	2.801	0.01742	108	75.7	126	6.70	20	
Surr: 4-Bromofluorobenzene	0.82		0.9337		87.9	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212E44

12-Jan-23

Client: Devon Energy**Project:** East Pecos Pipeline Spill

Sample ID: 2212e44-062ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-37 2'	Batch ID: 72384		RunNo: 93665							
Prep Date: 12/29/2022	Analysis Date: 12/31/2022		SeqNo: 3380509		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	0.9960	0	95.5	68.8	120			
Toluene	0.99	0.050	0.9960	0	99.0	73.6	124			
Ethylbenzene	0.99	0.050	0.9960	0	99.7	72.7	129			
Xylenes, Total	3.0	0.10	2.988	0.01824	98.2	75.7	126			
Surr: 4-Bromofluorobenzene	0.86		0.9960		86.0	70	130			

Sample ID: 2212e44-062amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-37 2'	Batch ID: 72384		RunNo: 93665							
Prep Date: 12/29/2022	Analysis Date: 12/31/2022		SeqNo: 3380510		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.024	0.9747	0	99.7	68.8	120	2.18	20	
Toluene	1.0	0.049	0.9747	0	102	73.6	124	1.15	20	
Ethylbenzene	1.0	0.049	0.9747	0	103	72.7	129	1.20	20	
Xylenes, Total	3.0	0.097	2.924	0.01824	102	75.7	126	1.58	20	
Surr: 4-Bromofluorobenzene	0.85		0.9747		86.9	70	130	0	0	

Sample ID: LCS-72379	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72379		RunNo: 93665							
Prep Date: 12/29/2022	Analysis Date: 12/30/2022		SeqNo: 3380534		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.4	80	120			
Toluene	0.89	0.050	1.000	0	89.0	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.0	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.4	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.7	70	130			

Sample ID: LCS-72384	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72384		RunNo: 93665							
Prep Date: 12/29/2022	Analysis Date: 12/31/2022		SeqNo: 3380535		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.2	80	120			
Toluene	0.90	0.050	1.000	0	90.0	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.3	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.0	80	120			
Surr: 4-Bromofluorobenzene	0.88		1.000		87.7	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212E44

12-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline Spill

Sample ID: mb-72379	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72379		RunNo: 93665							
Prep Date: 12/29/2022	Analysis Date: 12/30/2022		SeqNo: 3380536		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		86.9	70	130			

Sample ID: mb-72384	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72384		RunNo: 93665							
Prep Date: 12/29/2022	Analysis Date: 12/31/2022		SeqNo: 3380537		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.7	70	130			

Sample ID: LCS-72392	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72392		RunNo: 93680							
Prep Date: 12/30/2022	Analysis Date: 1/3/2023		SeqNo: 3381384		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	113	80	120			
Toluene	1.1	0.050	1.000	0	114	80	120			
Ethylbenzene	1.1	0.050	1.000	0	114	80	120			
Xylenes, Total	3.4	0.10	3.000	0	114	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		123	70	130			

Sample ID: mb-72392	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72392		RunNo: 93680							
Prep Date: 12/30/2022	Analysis Date: 1/3/2023		SeqNo: 3381385		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		123	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212E44

12-Jan-23

Client: Devon Energy**Project:** East Pecos Pipeline Spill

Sample ID: 2212E44-082ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-67 0'	Batch ID: 72392	RunNo: 93680								
Prep Date: 12/30/2022	Analysis Date: 1/3/2023	SeqNo: 3381390 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9881	0	111	68.8	120			
Toluene	1.1	0.049	0.9881	0	113	73.6	124			
Ethylbenzene	1.1	0.049	0.9881	0	113	72.7	129			
Xylenes, Total	3.3	0.099	2.964	0	113	75.7	126			
Surr: 4-Bromofluorobenzene	1.2		0.9881		122	70	130			

Sample ID: 2212E44-082amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-67 0'	Batch ID: 72392	RunNo: 93680								
Prep Date: 12/30/2022	Analysis Date: 1/3/2023	SeqNo: 3381391 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9862	0	110	68.8	120	0.834	20	
Toluene	1.1	0.049	0.9862	0	112	73.6	124	0.708	20	
Ethylbenzene	1.1	0.049	0.9862	0	114	72.7	129	0.540	20	
Xylenes, Total	3.4	0.099	2.959	0	114	75.7	126	0.741	20	
Surr: 4-Bromofluorobenzene	1.2		0.9862		122	70	130	0	0	

Sample ID: 2212E44-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-16 2'	Batch ID: 72377	RunNo: 93680								
Prep Date: 12/29/2022	Analysis Date: 1/3/2023	SeqNo: 3381400 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.024	0.9634	0	102	68.8	120			
Toluene	1.0	0.048	0.9634	0	105	73.6	124			
Ethylbenzene	1.0	0.048	0.9634	0	105	72.7	129			
Xylenes, Total	3.0	0.096	2.890	0	105	75.7	126			
Surr: 4-Bromofluorobenzene	1.2		0.9634		121	70	130			

Sample ID: 2212E44-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-16 2'	Batch ID: 72377	RunNo: 93680								
Prep Date: 12/29/2022	Analysis Date: 1/3/2023	SeqNo: 3381401 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9690	0	105	68.8	120	3.16	20	
Toluene	1.0	0.048	0.9690	0	108	73.6	124	3.46	20	
Ethylbenzene	1.1	0.048	0.9690	0	108	72.7	129	4.01	20	
Xylenes, Total	3.2	0.097	2.907	0	109	75.7	126	4.09	20	
Surr: 4-Bromofluorobenzene	1.2		0.9690		120	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2212E44

12-Jan-23

Client: Devon Energy**Project:** East Pecos Pipeline Spill

Sample ID: LCS-72396	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72396		RunNo: 93680							
Prep Date: 12/30/2022	Analysis Date: 1/3/2023		SeqNo: 3381412		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	112	80	120			
Toluene	1.1	0.050	1.000	0	114	80	120			
Ethylbenzene	1.1	0.050	1.000	0	114	80	120			
Xylenes, Total	3.4	0.10	3.000	0	114	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		122	70	130			

Sample ID: mb-72396	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72396		RunNo: 93680							
Prep Date: 12/30/2022	Analysis Date: 1/3/2023		SeqNo: 3381413		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		122	70	130			

Sample ID: 2212E44-102ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-72 4'	Batch ID: 72396		RunNo: 93680							
Prep Date: 12/30/2022	Analysis Date: 1/4/2023		SeqNo: 3381416		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9901	0	111	68.8	120			
Toluene	1.1	0.050	0.9901	0	113	73.6	124			
Ethylbenzene	1.1	0.050	0.9901	0	113	72.7	129			
Xylenes, Total	3.3	0.099	2.970	0	113	75.7	126			
Surr: 4-Bromofluorobenzene	1.2		0.9901		120	70	130			

Sample ID: 2212E44-102amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-72 4'	Batch ID: 72396		RunNo: 93680							
Prep Date: 12/30/2022	Analysis Date: 1/4/2023		SeqNo: 3381417		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9833	0	114	68.8	120	1.33	20	
Toluene	1.1	0.049	0.9833	0	116	73.6	124	1.91	20	
Ethylbenzene	1.1	0.049	0.9833	0	116	72.7	129	2.24	20	
Xylenes, Total	3.4	0.098	2.950	0	116	75.7	126	2.60	20	
Surr: 4-Bromofluorobenzene	1.2		0.9833		121	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

Sample Log-In Check List

Client Name: **Devon Energy**

Work Order Number: **2212E44**

RcptNo: 1

Received By: **Cheyenne Cason** 12/29/2022 7:30:00 AM

Completed By: **Cheyenne Cason** 12/29/2022 8:17:08 AM

Reviewed By: *ju 12/29/22*

Chad

Chad

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *KPC 12-29-22*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good	Not Present	IR Yogi		
2	1.6	Good	Not Present	IR Yogi		

Released to Imaging: 5/8/2023 11:43:26 AM

Received by QCD: 4/27/2023 2:22:31 PM
be clearly notated on the analytical report.

Released to Imaging: 5/8/2023 11:43:26 AM

☒ Standard ☒ Rush 5 day

East Pecos Pipeline Spill

Project #: 22E-03982

Project Manager: Monica Peppin

☐ Level 4 (Full Validation)

☐ NELAC ☐ Other _____

Cooler Temp (including CF): $0.8 - 0 = 0.8$ ($^{\circ}\text{C}$)

Container Type and #	Preservative Type	HEAL No.
		2212E44

402	102	013
-----	-----	-----

014

515

016

		617
--	--	-----

618

[illegible]

070

871

[illegible][illegible][illegible]Received by: _____ Via: _____ ☐

Group

Received by: _____ Via: _____ L_____

Mc Cam 12/29/20 0730

HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE - Albuquerque, NM 87109

Analysis Request

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

Remarks:

Received by OGD: 2/27/2023 2:22:31 PM
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 updated on the analytical report.
Page 213 of 709

Released to Imaging: 5/8/2023 11:43:26 AM

Received by OCD: 4/27/2023 2:22:31 PM

Chain-of-Custody Record

Client: Duon / WFX

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard

☒ Rush 5 days

Project Name:

East Pecos Pipeline Spill

Project #:

22E-03982

Project Manager:

Monica Peppin

Sampler: MW/MJF

On Ice: ☒ Yes ☐ No

of Coolers: 2 1.6 - 0 ± 1.6

Cooler Temp (including CF): 0.8 - 0 ± 0.8 (°C)

Container Type and # Preservative Type HEAL No.

402 1cc 037

038

039

040

041

042

043

044

045

046

047

048

Date: Time: Relinquished by:

12/22/11 1:10 BH22-32 4'

Received by: Via: Date Time

Monica 12/22/11 9:45

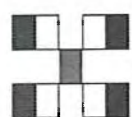
Date: Time: Relinquished by:

12/22/11 1:00 Monica

Received by: Via: Date Time

Monica 12/22/11 07:30

Remarks:



HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

☒ BTEX MTBE / TMB's (8021)
☒ TPH:8015D(GRO / DRO / MRO)
8081 Pesticides/8082 PCB's
EDB (Method 504.1)
PAHs by 8310 or 8270SIMS
RCRA 8 Metals
☒ Cl, F, Br, NO₃, NO₂, PO₄, SO₄
8260 (VOA)
8270 (Semi-VOA)
Total Coliform (Present/Absent)

Chain-of-Custody Record

Client: Devon WPX

Mailing Address: Jim Proby

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard

☒ Rush 5 Day

Project Name:

East Pecos Pipeline Spill

Project #:

22E-03982

Project Manager:

Monica Peppin

Sampler: MW/MTE

On Ice: ☒ Yes ☐ No

of Coolers: 2 1.6-0=1.6

Cooler Temp(Including CF): 0.8-0=0.8 (°C)

Container Type and # Preservative Type HEAL No.

402 Ice 049

050

051

052

053

054

055

056

057

058

059

060

Date: Time: Relinquished by:

12/22/12 2:10 [Signature]

Received by: Via: Date Time

Monica 12/28/12 9:15

Date: Time: Relinquished by:

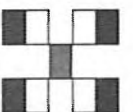
12/28/12 1:40 [Signature]

Received by: Via: Date Time

Jim Corbin 12/29/12 0730

Remarks:

[Signature]



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

☒ BTEX/ MTBE / TMB's (8021)
☒ TPH:8015D(GRO / DRO / MRO)
8081 Pesticides/8082 PCB's
EDB (Method 504.1)
PAHs by 8310 or 8270SIMS
RCRA 8 Metals
☒ Cl, F, Br, NO₃, NO₂, PO₄, SO₄
8260 (VOA)
8270 (Semi-VOA)
Total Coliform (Present/Absent)

Chain-of-Custody Record

Client:

Don on WPX

Mailing Address:

Jim Peckley

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard

☒ Rush 5 Day

Project Name:

East Pecos Pipeline Spill

Project #:

226-03482

Project Manager:

Monica Repph

Sampler: MW/mwp

On Ice: ☒ Yes ☐ No

of Coolers: 2 1.6-0=1.6

Cooler Temp (including CF): 0.8-0=0.8 (°C)

Container Type and # Preservative Type HEAL No. 2212 E44

Date	Time	Matrix	Sample Name	Depth	Container Type and #	Preservative Type	HEAL No.
12/21	10:45	Soil	BH22-64	0'	402	ice	073
	10:50		BH22-64	2'			074
	10:55		BH22-64	4'			075
	11:00		BH22-65	0'			076
	11:05		BH22-65	2'			077
	11:10		BH22-65	4'			078
	11:15		BH22-66	0'			079
	11:20		BH22-66	2'			080
	11:25		BH22-66	4'			081
	11:30		BH22-67	0'			082
	11:35		BH22-67	2'			083
12/21	11:40		BH22-67	4'			084

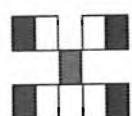
Date: Time: Relinquished by:

Received by: Via: Date Time

Date: Time: Relinquished by:

Received by: Via: Date Time

Remarks:



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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

Chain-of-Custody Record

Client:

Client: Duon/VPX

Mailing Address:

Mailing Address: Timothy

Turn-Around Time:	
<input checked="" type="checkbox"/> Standard	
Project Name:	

☒ Rush 5 days

Project Name:

East Pecos Pipeline Spill

Project #:

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:
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Phone #: _____

Email or Fax#:

Project Manager:

QA/QC Package:

- ☐ Standard
- ☐ Level 4 (Full Validation)

Accreditation: ☐ AZ Compliance

☐ NELAC ☐ Other

☐ EDD (Type)☐ EDD (Type)

Sampler: MW / HW

On Ice: ☒ Yes ☐ No

of Coolers: 4
1.6 - 0 = 1.6

Cooler Temp (including CF): $0.8 - 0 = 0.8$ ($^{\circ}\text{C}$)

Container Type and #	Preservative Type	HEAL No.
		2217E44

BTEX)/ MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

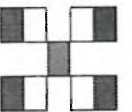
8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Date	Time	Matrix	Sample Name
12/22	9:00	So. 1	BH22-12
12/22	9:05		BH22-12
12/22	9:10		BH22-12
12/21	10:45		BH22-68
	11:50		BH22-68
	11:55		BH22-68
	12:00		BH22-69
	12:05		BH22-69
	12:10		BH22-69
	12:15		BH22-70
	12:20		BH22-70
	12:25		BH22-70

Type and #	Type	2212E44
4 02	102	085
		086
		087
		088
		089
		090
		091
		092
		093
		094
		095
		096
		097

[illegible]

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Released to Imaging: 5/8/2023 11:43:26 AM



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

January 16, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: East Pecos Pipeline Spill

OrderNo.: 2301065

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 84 sample(s) on 1/4/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-54 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 9:30:00 AM

Lab ID: 2301065-001

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/5/2023 8:17:34 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/5/2023 8:17:34 PM
Surr: DNOP	114	21-129		%Rec	1	1/5/2023 8:17:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/6/2023 10:16:00 AM
Surr: BFB	111	37.7-212		%Rec	1	1/6/2023 10:16:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/6/2023 10:16:00 AM
Toluene	ND	0.048		mg/Kg	1	1/6/2023 10:16:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/6/2023 10:16:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/6/2023 10:16:00 AM
Surr: 4-Bromofluorobenzene	125	70-130		%Rec	1	1/6/2023 10:16:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	3100	150		mg/Kg	50	1/5/2023 1:09:34 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 1 of 99

Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-54 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 9:35:00 AM

Lab ID: 2301065-002

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/5/2023 8:48:59 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/5/2023 8:48:59 PM
Surr: DNOP	119	21-129		%Rec	1	1/5/2023 8:48:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 11:15:00 AM
Surr: BFB	114	37.7-212		%Rec	1	1/6/2023 11:15:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 11:15:00 AM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 11:15:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 11:15:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/6/2023 11:15:00 AM
Surr: 4-Bromofluorobenzene	131	70-130	S	%Rec	1	1/6/2023 11:15:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	3800	150		mg/Kg	50	1/6/2023 10:54:21 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 2 of 99

Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-54 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 9:40:00 AM

Lab ID: 2301065-003

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/5/2023 8:59:29 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/5/2023 8:59:29 PM
Surr: DNOP	137	21-129	S	%Rec	1	1/5/2023 8:59:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/6/2023 12:14:00 PM
Surr: BFB	107	37.7-212		%Rec	1	1/6/2023 12:14:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/6/2023 12:14:00 PM
Toluene	ND	0.048		mg/Kg	1	1/6/2023 12:14:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/6/2023 12:14:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/6/2023 12:14:00 PM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/6/2023 12:14:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	970	61		mg/Kg	20	1/5/2023 11:05:44 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-55 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 9:15:00 AM

Lab ID: 2301065-004

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	1/5/2023 9:10:01 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/5/2023 9:10:01 PM
Surr: DNOP	140	21-129	S	%Rec	1	1/5/2023 9:10:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 12:34:00 PM
Surr: BFB	110	37.7-212		%Rec	1	1/6/2023 12:34:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/6/2023 12:34:00 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 12:34:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 12:34:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/6/2023 12:34:00 PM
Surr: 4-Bromofluorobenzene	126	70-130		%Rec	1	1/6/2023 12:34:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	190	60		mg/Kg	20	1/5/2023 11:42:46 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-55 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 9:20:00 AM

Lab ID: 2301065-005

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/5/2023 9:20:31 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/5/2023 9:20:31 PM
Surr: DNOP	117	21-129		%Rec	1	1/5/2023 9:20:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 12:53:00 PM
Surr: BFB	104	37.7-212		%Rec	1	1/6/2023 12:53:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 12:53:00 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 12:53:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 12:53:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/6/2023 12:53:00 PM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/6/2023 12:53:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	840	60		mg/Kg	20	1/5/2023 11:55:06 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-55 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 9:25:00 AM

Lab ID: 2301065-006

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/5/2023 9:31:04 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/5/2023 9:31:04 PM
Surr: DNOP	144	21-129	S	%Rec	1	1/5/2023 9:31:04 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 1:13:00 PM
Surr: BFB	108	37.7-212		%Rec	1	1/6/2023 1:13:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 1:13:00 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 1:13:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 1:13:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/6/2023 1:13:00 PM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/6/2023 1:13:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	200	61		mg/Kg	20	1/5/2023 12:07:27 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-56 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 9:00:00 AM

Lab ID: 2301065-007

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	1/5/2023 9:41:36 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/5/2023 9:41:36 PM
Surr: DNOP	131	21-129	S	%Rec	1	1/5/2023 9:41:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 1:33:00 PM
Surr: BFB	116	37.7-212		%Rec	1	1/6/2023 1:33:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/6/2023 1:33:00 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 1:33:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 1:33:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/6/2023 1:33:00 PM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/6/2023 1:33:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	3400	150		mg/Kg	50	1/6/2023 11:06:42 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-56 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 9:05:00 AM

Lab ID: 2301065-008

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/5/2023 9:52:10 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/5/2023 9:52:10 PM
Surr: DNOP	111	21-129		%Rec	1	1/5/2023 9:52:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/6/2023 1:52:00 PM
Surr: BFB	108	37.7-212		%Rec	1	1/6/2023 1:52:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 1:52:00 PM
Toluene	ND	0.050		mg/Kg	1	1/6/2023 1:52:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/6/2023 1:52:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/6/2023 1:52:00 PM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/6/2023 1:52:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	14000	600		mg/Kg	200	1/6/2023 11:19:03 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-56 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 9:10:00 AM

Lab ID: 2301065-009

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/5/2023 10:13:14 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/5/2023 10:13:14 PM
Surr: DNOP	113	21-129		%Rec	1	1/5/2023 10:13:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/6/2023 2:12:00 PM
Surr: BFB	108	37.7-212		%Rec	1	1/6/2023 2:12:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 2:12:00 PM
Toluene	ND	0.050		mg/Kg	1	1/6/2023 2:12:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/6/2023 2:12:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/6/2023 2:12:00 PM
Surr: 4-Bromofluorobenzene	125	70-130		%Rec	1	1/6/2023 2:12:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	17000	1500		mg/Kg	500	1/6/2023 11:31:25 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-40 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/30/2022 12:00:00 PM

Lab ID: 2301065-010

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	2100	140		mg/Kg	10	1/5/2023 10:23:49 PM
Motor Oil Range Organics (MRO)	1500	460		mg/Kg	10	1/5/2023 10:23:49 PM
Surr: DNOP	0	21-129	S	%Rec	10	1/5/2023 10:23:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	1/6/2023 2:32:00 PM
Surr: BFB	110	37.7-212		%Rec	5	1/6/2023 2:32:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.12		mg/Kg	5	1/6/2023 2:32:00 PM
Toluene	ND	0.24		mg/Kg	5	1/6/2023 2:32:00 PM
Ethylbenzene	ND	0.24		mg/Kg	5	1/6/2023 2:32:00 PM
Xylenes, Total	ND	0.49		mg/Kg	5	1/6/2023 2:32:00 PM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	5	1/6/2023 2:32:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	39000	3000		mg/Kg	1000	1/6/2023 11:43:46 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-40 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/30/2022 12:05:00 PM

Lab ID: 2301065-011

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/5/2023 10:34:25 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/5/2023 10:34:25 PM
Surr: DNOP	119	21-129		%Rec	1	1/5/2023 10:34:25 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/6/2023 3:11:00 PM
Surr: BFB	113	37.7-212		%Rec	1	1/6/2023 3:11:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	0.076	0.024		mg/Kg	1	1/6/2023 3:11:00 PM
Toluene	0.34	0.048		mg/Kg	1	1/6/2023 3:11:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/6/2023 3:11:00 PM
Xylenes, Total	0.47	0.096		mg/Kg	1	1/6/2023 3:11:00 PM
Surr: 4-Bromofluorobenzene	125	70-130		%Rec	1	1/6/2023 3:11:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	19000	1500		mg/Kg	500	1/6/2023 11:56:07 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-40 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/30/2022 12:10:00 PM

Lab ID: 2301065-012

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/5/2023 10:45:00 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/5/2023 10:45:00 PM
Surr: DNOP	120	21-129		%Rec	1	1/5/2023 10:45:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 3:31:00 PM
Surr: BFB	106	37.7-212		%Rec	1	1/6/2023 3:31:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 3:31:00 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 3:31:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 3:31:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/6/2023 3:31:00 PM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/6/2023 3:31:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	17000	600		mg/Kg	200	1/6/2023 12:08:28 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-50 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 12:15:00 PM

Lab ID: 2301065-013

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/5/2023 10:55:36 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/5/2023 10:55:36 PM
Surr: DNOP	127	21-129		%Rec	1	1/5/2023 10:55:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/6/2023 3:51:00 PM
Surr: BFB	107	37.7-212		%Rec	1	1/6/2023 3:51:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/6/2023 3:51:00 PM
Toluene	ND	0.048		mg/Kg	1	1/6/2023 3:51:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/6/2023 3:51:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/6/2023 3:51:00 PM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	1/6/2023 3:51:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/5/2023 1:58:36 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-50 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 12:20:00 PM

Lab ID: 2301065-014

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/5/2023 11:06:14 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/5/2023 11:06:14 PM
Surr: DNOP	109	21-129		%Rec	1	1/5/2023 11:06:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/6/2023 4:10:00 PM
Surr: BFB	109	37.7-212		%Rec	1	1/6/2023 4:10:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 4:10:00 PM
Toluene	ND	0.050		mg/Kg	1	1/6/2023 4:10:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/6/2023 4:10:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/6/2023 4:10:00 PM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/6/2023 4:10:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	210	61		mg/Kg	20	1/5/2023 2:10:57 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-50 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 12:25:00 PM

Lab ID: 2301065-015

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/5/2023 11:16:51 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/5/2023 11:16:51 PM
Surr: DNOP	117	21-129		%Rec	1	1/5/2023 11:16:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/6/2023 4:30:00 PM
Surr: BFB	106	37.7-212		%Rec	1	1/6/2023 4:30:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 4:30:00 PM
Toluene	ND	0.050		mg/Kg	1	1/6/2023 4:30:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/6/2023 4:30:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/6/2023 4:30:00 PM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/6/2023 4:30:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/5/2023 2:23:19 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-51 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 11:45:00 AM

Lab ID: 2301065-016

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/5/2023 11:27:29 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/5/2023 11:27:29 PM
Surr: DNOP	139	21-129	S	%Rec	1	1/5/2023 11:27:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 4:50:00 PM
Surr: BFB	108	37.7-212		%Rec	1	1/6/2023 4:50:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/6/2023 4:50:00 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 4:50:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 4:50:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/6/2023 4:50:00 PM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/6/2023 4:50:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	3600	150		mg/Kg	50	1/6/2023 12:20:49 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-51 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 11:50:00 AM

Lab ID: 2301065-017

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/5/2023 11:38:18 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/5/2023 11:38:18 PM
Surr: DNOP	113	21-129		%Rec	1	1/5/2023 11:38:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/6/2023 5:09:00 PM
Surr: BFB	115	37.7-212		%Rec	1	1/6/2023 5:09:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/6/2023 5:09:00 PM
Toluene	ND	0.048		mg/Kg	1	1/6/2023 5:09:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/6/2023 5:09:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/6/2023 5:09:00 PM
Surr: 4-Bromofluorobenzene	127	70-130		%Rec	1	1/6/2023 5:09:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	5100	300		mg/Kg	100	1/6/2023 12:33:10 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-51 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 11:55:00 AM

Lab ID: 2301065-018

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/5/2023 11:49:05 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/5/2023 11:49:05 PM
Surr: DNOP	112	21-129		%Rec	1	1/5/2023 11:49:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/6/2023 5:29:00 PM
Surr: BFB	114	37.7-212		%Rec	1	1/6/2023 5:29:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/6/2023 5:29:00 PM
Toluene	ND	0.048		mg/Kg	1	1/6/2023 5:29:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/6/2023 5:29:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/6/2023 5:29:00 PM
Surr: 4-Bromofluorobenzene	125	70-130		%Rec	1	1/6/2023 5:29:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	5500	300		mg/Kg	100	1/6/2023 12:45:30 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-52 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 10:00:00 AM

Lab ID: 2301065-019

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	1/5/2023 11:59:52 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/5/2023 11:59:52 PM
Surr: DNOP	157	21-129	S	%Rec	1	1/5/2023 11:59:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 5:49:00 PM
Surr: BFB	110	37.7-212		%Rec	1	1/6/2023 5:49:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/6/2023 5:49:00 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 5:49:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 5:49:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/6/2023 5:49:00 PM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/6/2023 5:49:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	98	61		mg/Kg	20	1/5/2023 3:37:24 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-52 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 10:05:00 AM

Lab ID: 2301065-020

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 12:10:38 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/6/2023 12:10:38 AM
Surr: DNOP	137	21-129	S	%Rec	1	1/6/2023 12:10:38 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 6:08:00 PM
Surr: BFB	103	37.7-212		%Rec	1	1/6/2023 6:08:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/6/2023 6:08:00 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 6:08:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 6:08:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/6/2023 6:08:00 PM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/6/2023 6:08:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	91	60		mg/Kg	20	1/5/2023 3:49:46 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-52 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 10:10:00 AM

Lab ID: 2301065-021

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 12:52:48 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/6/2023 12:52:48 AM
Surr: DNOP	139	21-129	S	%Rec	1	1/6/2023 12:52:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/5/2023 10:23:00 AM
Surr: BFB	106	37.7-212		%Rec	1	1/5/2023 10:23:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/5/2023 10:23:00 AM
Toluene	ND	0.049		mg/Kg	1	1/5/2023 10:23:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/5/2023 10:23:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/5/2023 10:23:00 AM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/5/2023 10:23:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	470	60		mg/Kg	20	1/5/2023 4:02:07 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-53 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 9:45:00 AM

Lab ID: 2301065-022

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 1:24:16 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/6/2023 1:24:16 AM
Surr: DNOP	135	21-129	S	%Rec	1	1/6/2023 1:24:16 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/5/2023 11:22:00 AM
Surr: BFB	116	37.7-212		%Rec	1	1/5/2023 11:22:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.023		mg/Kg	1	1/5/2023 11:22:00 AM
Toluene	ND	0.047		mg/Kg	1	1/5/2023 11:22:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/5/2023 11:22:00 AM
Xylenes, Total	ND	0.094		mg/Kg	1	1/5/2023 11:22:00 AM
Surr: 4-Bromofluorobenzene	127	70-130		%Rec	1	1/5/2023 11:22:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/5/2023 4:39:09 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-53 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 9:50:00 AM

Lab ID: 2301065-023

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	1/6/2023 1:34:38 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/6/2023 1:34:38 AM
Surr: DNOP	129	21-129	S	%Rec	1	1/6/2023 1:34:38 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/5/2023 12:21:00 PM
Surr: BFB	113	37.7-212		%Rec	1	1/5/2023 12:21:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/5/2023 12:21:00 PM
Toluene	ND	0.047		mg/Kg	1	1/5/2023 12:21:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/5/2023 12:21:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/5/2023 12:21:00 PM
Surr: 4-Bromofluorobenzene	127	70-130		%Rec	1	1/5/2023 12:21:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	120	60		mg/Kg	20	1/5/2023 5:16:12 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-53 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 9:55:00 AM

Lab ID: 2301065-024

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 1:45:01 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/6/2023 1:45:01 AM
Surr: DNOP	117	21-129		%Rec	1	1/6/2023 1:45:01 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/5/2023 12:40:00 PM
Surr: BFB	112	37.7-212		%Rec	1	1/5/2023 12:40:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/5/2023 12:40:00 PM
Toluene	ND	0.048		mg/Kg	1	1/5/2023 12:40:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/5/2023 12:40:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/5/2023 12:40:00 PM
Surr: 4-Bromofluorobenzene	127	70-130		%Rec	1	1/5/2023 12:40:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	210	59		mg/Kg	20	1/5/2023 5:28:32 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-46 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 2:00:00 PM

Lab ID: 2301065-025

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 1:55:23 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/6/2023 1:55:23 AM
Surr: DNOP	144	21-129	S	%Rec	1	1/6/2023 1:55:23 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/5/2023 1:00:00 PM
Surr: BFB	112	37.7-212		%Rec	1	1/5/2023 1:00:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/5/2023 1:00:00 PM
Toluene	ND	0.050		mg/Kg	1	1/5/2023 1:00:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/5/2023 1:00:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/5/2023 1:00:00 PM
Surr: 4-Bromofluorobenzene	126	70-130		%Rec	1	1/5/2023 1:00:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/5/2023 6:30:17 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-46 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 2:05:00 PM

Lab ID: 2301065-026

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 2:05:45 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/6/2023 2:05:45 AM
Surr: DNOP	109	21-129		%Rec	1	1/6/2023 2:05:45 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/5/2023 1:19:00 PM
Surr: BFB	110	37.7-212		%Rec	1	1/5/2023 1:19:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/5/2023 1:19:00 PM
Toluene	ND	0.048		mg/Kg	1	1/5/2023 1:19:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/5/2023 1:19:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/5/2023 1:19:00 PM
Surr: 4-Bromofluorobenzene	126	70-130		%Rec	1	1/5/2023 1:19:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/5/2023 6:42:39 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-46 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 2:10:00 PM

Lab ID: 2301065-027

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 2:16:07 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/6/2023 2:16:07 AM
Surr: DNOP	108	21-129		%Rec	1	1/6/2023 2:16:07 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/5/2023 1:39:00 PM
Surr: BFB	109	37.7-212		%Rec	1	1/5/2023 1:39:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/5/2023 1:39:00 PM
Toluene	ND	0.048		mg/Kg	1	1/5/2023 1:39:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/5/2023 1:39:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/5/2023 1:39:00 PM
Surr: 4-Bromofluorobenzene	128	70-130		%Rec	1	1/5/2023 1:39:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/5/2023 6:55:00 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-47 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 1:45:00 PM

Lab ID: 2301065-028

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	1/6/2023 2:26:30 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/6/2023 2:26:30 AM
Surr: DNOP	134	21-129	S	%Rec	1	1/6/2023 2:26:30 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/5/2023 1:59:00 PM
Surr: BFB	112	37.7-212		%Rec	1	1/5/2023 1:59:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/5/2023 1:59:00 PM
Toluene	ND	0.047		mg/Kg	1	1/5/2023 1:59:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/5/2023 1:59:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/5/2023 1:59:00 PM
Surr: 4-Bromofluorobenzene	129	70-130		%Rec	1	1/5/2023 1:59:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/5/2023 7:07:21 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-47 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 1:50:00 PM

Lab ID: 2301065-029

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 2:47:10 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/6/2023 2:47:10 AM
Surr: DNOP	107	21-129		%Rec	1	1/6/2023 2:47:10 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/5/2023 2:19:00 PM
Surr: BFB	110	37.7-212		%Rec	1	1/5/2023 2:19:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/5/2023 2:19:00 PM
Toluene	ND	0.049		mg/Kg	1	1/5/2023 2:19:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/5/2023 2:19:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/5/2023 2:19:00 PM
Surr: 4-Bromofluorobenzene	126	70-130		%Rec	1	1/5/2023 2:19:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/5/2023 7:19:41 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-47 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 1:55:00 PM

Lab ID: 2301065-030

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	1/6/2023 2:57:39 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/6/2023 2:57:39 AM
Surr: DNOP	92.9	21-129		%Rec	1	1/6/2023 2:57:39 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/5/2023 2:38:00 PM
Surr: BFB	108	37.7-212		%Rec	1	1/5/2023 2:38:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/5/2023 2:38:00 PM
Toluene	ND	0.048		mg/Kg	1	1/5/2023 2:38:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/5/2023 2:38:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/5/2023 2:38:00 PM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/5/2023 2:38:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	59		mg/Kg	20	1/5/2023 7:32:02 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-48 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 12:55:00 PM

Lab ID: 2301065-031

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 3:08:12 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/6/2023 3:08:12 AM
Surr: DNOP	110	21-129		%Rec	1	1/6/2023 3:08:12 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/5/2023 3:18:00 PM
Surr: BFB	109	37.7-212		%Rec	1	1/5/2023 3:18:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/5/2023 3:18:00 PM
Toluene	ND	0.048		mg/Kg	1	1/5/2023 3:18:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/5/2023 3:18:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/5/2023 3:18:00 PM
Surr: 4-Bromofluorobenzene	125	70-130		%Rec	1	1/5/2023 3:18:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	1800	60		mg/Kg	20	1/5/2023 7:44:22 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-48 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 1:00:00 PM

Lab ID: 2301065-032

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 3:18:46 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/6/2023 3:18:46 AM
Surr: DNOP	112	21-129		%Rec	1	1/6/2023 3:18:46 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/5/2023 3:37:00 PM
Surr: BFB	105	37.7-212		%Rec	1	1/5/2023 3:37:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.023		mg/Kg	1	1/5/2023 3:37:00 PM
Toluene	ND	0.047		mg/Kg	1	1/5/2023 3:37:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/5/2023 3:37:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	1/5/2023 3:37:00 PM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/5/2023 3:37:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	6200	300		mg/Kg	100	1/6/2023 1:22:33 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-48 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 1:05:00 PM

Lab ID: 2301065-033

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 3:29:23 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/6/2023 3:29:23 AM
Surr: DNOP	113	21-129		%Rec	1	1/6/2023 3:29:23 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/5/2023 3:57:00 PM
Surr: BFB	104	37.7-212		%Rec	1	1/5/2023 3:57:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/5/2023 3:57:00 PM
Toluene	ND	0.048		mg/Kg	1	1/5/2023 3:57:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/5/2023 3:57:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/5/2023 3:57:00 PM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/5/2023 3:57:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	9300	300		mg/Kg	100	1/6/2023 1:34:54 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-49 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 12:35:00 PM

Lab ID: 2301065-034

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 3:40:00 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/6/2023 3:40:00 AM
Surr: DNOP	125	21-129		%Rec	1	1/6/2023 3:40:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/5/2023 4:17:00 PM
Surr: BFB	111	37.7-212		%Rec	1	1/5/2023 4:17:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.023		mg/Kg	1	1/5/2023 4:17:00 PM
Toluene	ND	0.046		mg/Kg	1	1/5/2023 4:17:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	1/5/2023 4:17:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	1/5/2023 4:17:00 PM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/5/2023 4:17:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/5/2023 8:46:07 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-49 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 12:40:00 PM

Lab ID: 2301065-035

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 3:50:46 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/6/2023 3:50:46 AM
Surr: DNOP	108	21-129		%Rec	1	1/6/2023 3:50:46 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/5/2023 4:36:00 PM
Surr: BFB	105	37.7-212		%Rec	1	1/5/2023 4:36:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/5/2023 4:36:00 PM
Toluene	ND	0.049		mg/Kg	1	1/5/2023 4:36:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/5/2023 4:36:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/5/2023 4:36:00 PM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/5/2023 4:36:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	65	60		mg/Kg	20	1/5/2023 8:58:27 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-49 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/29/2022 12:45:00 PM

Lab ID: 2301065-036

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 4:01:31 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/6/2023 4:01:31 AM
Surr: DNOP	110	21-129		%Rec	1	1/6/2023 4:01:31 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/5/2023 4:56:00 PM
Surr: BFB	112	37.7-212		%Rec	1	1/5/2023 4:56:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.023		mg/Kg	1	1/5/2023 4:56:00 PM
Toluene	ND	0.046		mg/Kg	1	1/5/2023 4:56:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	1/5/2023 4:56:00 PM
Xylenes, Total	ND	0.091		mg/Kg	1	1/5/2023 4:56:00 PM
Surr: 4-Bromofluorobenzene	125	70-130		%Rec	1	1/5/2023 4:56:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	62	60		mg/Kg	20	1/5/2023 9:10:49 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-57 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 9:25:00 AM

Lab ID: 2301065-037

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 4:12:15 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/6/2023 4:12:15 AM
Surr: DNOP	139	21-129	S	%Rec	1	1/6/2023 4:12:15 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/5/2023 5:16:00 PM
Surr: BFB	111	37.7-212		%Rec	1	1/5/2023 5:16:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/5/2023 5:16:00 PM
Toluene	ND	0.048		mg/Kg	1	1/5/2023 5:16:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/5/2023 5:16:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/5/2023 5:16:00 PM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/5/2023 5:16:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	270	61		mg/Kg	20	1/5/2023 9:23:10 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-57 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 9:30:00 AM

Lab ID: 2301065-038

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 4:22:58 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/6/2023 4:22:58 AM
Surr: DNOP	109	21-129		%Rec	1	1/6/2023 4:22:58 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/5/2023 5:35:00 PM
Surr: BFB	120	37.7-212		%Rec	1	1/5/2023 5:35:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/5/2023 5:35:00 PM
Toluene	ND	0.050		mg/Kg	1	1/5/2023 5:35:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/5/2023 5:35:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/5/2023 5:35:00 PM
Surr: 4-Bromofluorobenzene	126	70-130		%Rec	1	1/5/2023 5:35:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	250	60		mg/Kg	20	1/5/2023 9:35:32 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-57 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 9:35:00 AM

Lab ID: 2301065-039

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 4:33:40 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/6/2023 4:33:40 AM
Surr: DNOP	106	21-129		%Rec	1	1/6/2023 4:33:40 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/5/2023 5:55:00 PM
Surr: BFB	109	37.7-212		%Rec	1	1/5/2023 5:55:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/5/2023 5:55:00 PM
Toluene	ND	0.050		mg/Kg	1	1/5/2023 5:55:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/5/2023 5:55:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/5/2023 5:55:00 PM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/5/2023 5:55:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	980	59		mg/Kg	20	1/5/2023 9:47:52 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-58 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 9:10:00 AM

Lab ID: 2301065-040

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 4:44:22 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/6/2023 4:44:22 AM
Surr: DNOP	127	21-129		%Rec	1	1/6/2023 4:44:22 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/5/2023 6:15:00 PM
Surr: BFB	106	37.7-212		%Rec	1	1/5/2023 6:15:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/5/2023 6:15:00 PM
Toluene	ND	0.049		mg/Kg	1	1/5/2023 6:15:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/5/2023 6:15:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/5/2023 6:15:00 PM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/5/2023 6:15:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	68	60		mg/Kg	20	1/5/2023 10:00:13 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-58 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 9:15:00 AM

Lab ID: 2301065-041

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 12:15:40 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/6/2023 12:15:40 PM
Surr: DNOP	115	21-129		%Rec	1	1/6/2023 12:15:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/5/2023 8:12:00 PM
Surr: BFB	109	37.7-212		%Rec	1	1/5/2023 8:12:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/5/2023 8:12:00 PM
Toluene	ND	0.050		mg/Kg	1	1/5/2023 8:12:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/5/2023 8:12:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/5/2023 8:12:00 PM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/5/2023 8:12:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/5/2023 10:12:34 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-58 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 9:20:00 AM

Lab ID: 2301065-042

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 12:47:17 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/6/2023 12:47:17 PM
Surr: DNOP	114	21-129		%Rec	1	1/6/2023 12:47:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/5/2023 9:12:00 PM
Surr: BFB	109	37.7-212		%Rec	1	1/5/2023 9:12:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/5/2023 9:12:00 PM
Toluene	ND	0.049		mg/Kg	1	1/5/2023 9:12:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/5/2023 9:12:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/5/2023 9:12:00 PM
Surr: 4-Bromofluorobenzene	125	70-130		%Rec	1	1/5/2023 9:12:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	82	60		mg/Kg	20	1/5/2023 11:14:19 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-59 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 8:55:00 AM

Lab ID: 2301065-043

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	18	15		mg/Kg	1	1/6/2023 12:57:46 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/6/2023 12:57:46 PM
Surr: DNOP	113	21-129		%Rec	1	1/6/2023 12:57:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/5/2023 10:10:00 PM
Surr: BFB	110	37.7-212		%Rec	1	1/5/2023 10:10:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/5/2023 10:10:00 PM
Toluene	ND	0.050		mg/Kg	1	1/5/2023 10:10:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/5/2023 10:10:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/5/2023 10:10:00 PM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/5/2023 10:10:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	200	59		mg/Kg	20	1/5/2023 11:51:22 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-59 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 9:10:00 AM

Lab ID: 2301065-044

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 1:08:15 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/6/2023 1:08:15 PM
Surr: DNOP	111	21-129		%Rec	1	1/6/2023 1:08:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/5/2023 10:30:00 PM
Surr: BFB	108	37.7-212		%Rec	1	1/5/2023 10:30:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/5/2023 10:30:00 PM
Toluene	ND	0.048		mg/Kg	1	1/5/2023 10:30:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/5/2023 10:30:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/5/2023 10:30:00 PM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/5/2023 10:30:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	910	60		mg/Kg	20	1/6/2023 12:28:25 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-59 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 9:05:00 AM

Lab ID: 2301065-045

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 1:18:45 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/6/2023 1:18:45 PM
Surr: DNOP	114	21-129		%Rec	1	1/6/2023 1:18:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/5/2023 10:50:00 PM
Surr: BFB	107	37.7-212		%Rec	1	1/5/2023 10:50:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/5/2023 10:50:00 PM
Toluene	ND	0.049		mg/Kg	1	1/5/2023 10:50:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/5/2023 10:50:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/5/2023 10:50:00 PM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/5/2023 10:50:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	460	60		mg/Kg	20	1/6/2023 12:40:46 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-60 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 8:40:00 AM

Lab ID: 2301065-046

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	17	14		mg/Kg	1	1/6/2023 1:29:15 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/6/2023 1:29:15 PM
Surr: DNOP	108	21-129		%Rec	1	1/6/2023 1:29:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/5/2023 11:09:00 PM
Surr: BFB	103	37.7-212		%Rec	1	1/5/2023 11:09:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/5/2023 11:09:00 PM
Toluene	ND	0.049		mg/Kg	1	1/5/2023 11:09:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/5/2023 11:09:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/5/2023 11:09:00 PM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/5/2023 11:09:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	2300	60		mg/Kg	20	1/6/2023 1:17:49 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-60 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 8:45:00 AM

Lab ID: 2301065-047

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 1:39:51 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/6/2023 1:39:51 PM
Surr: DNOP	110	21-129		%Rec	1	1/6/2023 1:39:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/5/2023 11:29:00 PM
Surr: BFB	104	37.7-212		%Rec	1	1/5/2023 11:29:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/5/2023 11:29:00 PM
Toluene	ND	0.049		mg/Kg	1	1/5/2023 11:29:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/5/2023 11:29:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/5/2023 11:29:00 PM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/5/2023 11:29:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	61		mg/Kg	20	1/6/2023 1:30:10 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-60 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 8:50:00 AM

Lab ID: 2301065-048

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	1/6/2023 2:00:56 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/6/2023 2:00:56 PM
Surr: DNOP	106	21-129		%Rec	1	1/6/2023 2:00:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/5/2023 11:48:00 PM
Surr: BFB	112	37.7-212		%Rec	1	1/5/2023 11:48:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/5/2023 11:48:00 PM
Toluene	ND	0.050		mg/Kg	1	1/5/2023 11:48:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/5/2023 11:48:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/5/2023 11:48:00 PM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/5/2023 11:48:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	64	60		mg/Kg	20	1/6/2023 1:42:30 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-38 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 11:00:00 AM

Lab ID: 2301065-049

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 2:11:32 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/6/2023 2:11:32 PM
Surr: DNOP	111	21-129		%Rec	1	1/6/2023 2:11:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 12:08:00 AM
Surr: BFB	106	37.7-212		%Rec	1	1/6/2023 12:08:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 12:08:00 AM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 12:08:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 12:08:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/6/2023 12:08:00 AM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/6/2023 12:08:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/6/2023 1:54:50 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-38 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 11:05:00 AM

Lab ID: 2301065-050

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	1/6/2023 2:22:07 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/6/2023 2:22:07 PM
Surr: DNOP	111	21-129		%Rec	1	1/6/2023 2:22:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 12:28:00 AM
Surr: BFB	109	37.7-212		%Rec	1	1/6/2023 12:28:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 12:28:00 AM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 12:28:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 12:28:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/6/2023 12:28:00 AM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/6/2023 12:28:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/6/2023 2:07:11 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-38 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 11:10:00 AM

Lab ID: 2301065-051

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 2:32:42 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/6/2023 2:32:42 PM
Surr: DNOP	106	21-129		%Rec	1	1/6/2023 2:32:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/6/2023 1:07:00 AM
Surr: BFB	104	37.7-212		%Rec	1	1/6/2023 1:07:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 1:07:00 AM
Toluene	ND	0.050		mg/Kg	1	1/6/2023 1:07:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/6/2023 1:07:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/6/2023 1:07:00 AM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/6/2023 1:07:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/6/2023 2:19:32 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-39 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 11:15:00 AM

Lab ID: 2301065-052

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 2:43:23 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/6/2023 2:43:23 PM
Surr: DNOP	111	21-129		%Rec	1	1/6/2023 2:43:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/6/2023 1:26:00 AM
Surr: BFB	104	37.7-212		%Rec	1	1/6/2023 1:26:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/6/2023 1:26:00 AM
Toluene	ND	0.048		mg/Kg	1	1/6/2023 1:26:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/6/2023 1:26:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	1/6/2023 1:26:00 AM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/6/2023 1:26:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/6/2023 2:31:53 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-39 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 11:20:00 AM

Lab ID: 2301065-053

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 2:53:56 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/6/2023 2:53:56 PM
Surr: DNOP	112	21-129		%Rec	1	1/6/2023 2:53:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/6/2023 1:46:00 AM
Surr: BFB	112	37.7-212		%Rec	1	1/6/2023 1:46:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 1:46:00 AM
Toluene	ND	0.050		mg/Kg	1	1/6/2023 1:46:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/6/2023 1:46:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/6/2023 1:46:00 AM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/6/2023 1:46:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	99	60		mg/Kg	20	1/6/2023 2:44:14 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-39 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 11:25:00 AM

Lab ID: 2301065-054

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 3:04:33 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/6/2023 3:04:33 PM
Surr: DNOP	112	21-129		%Rec	1	1/6/2023 3:04:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/6/2023 2:05:00 AM
Surr: BFB	105	37.7-212		%Rec	1	1/6/2023 2:05:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 2:05:00 AM
Toluene	ND	0.050		mg/Kg	1	1/6/2023 2:05:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/6/2023 2:05:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/6/2023 2:05:00 AM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/6/2023 2:05:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	4800	300		mg/Kg	100	1/6/2023 1:47:15 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-41 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 11:45:00 AM

Lab ID: 2301065-055

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 3:15:11 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/6/2023 3:15:11 PM
Surr: DNOP	108	21-129		%Rec	1	1/6/2023 3:15:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/6/2023 2:25:00 AM
Surr: BFB	107	37.7-212		%Rec	1	1/6/2023 2:25:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 2:25:00 AM
Toluene	ND	0.050		mg/Kg	1	1/6/2023 2:25:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/6/2023 2:25:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/6/2023 2:25:00 AM
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	1/6/2023 2:25:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	110	60		mg/Kg	20	1/6/2023 3:08:56 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-41 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 11:50:00 AM

Lab ID: 2301065-056

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 3:25:50 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/6/2023 3:25:50 PM
Surr: DNOP	113	21-129		%Rec	1	1/6/2023 3:25:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/6/2023 2:44:00 AM
Surr: BFB	108	37.7-212		%Rec	1	1/6/2023 2:44:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 2:44:00 AM
Toluene	ND	0.050		mg/Kg	1	1/6/2023 2:44:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/6/2023 2:44:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/6/2023 2:44:00 AM
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	1/6/2023 2:44:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	890	60		mg/Kg	20	1/6/2023 3:45:59 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-41 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 11:55:00 AM

Lab ID: 2301065-057

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 3:36:34 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/6/2023 3:36:34 PM
Surr: DNOP	112	21-129		%Rec	1	1/6/2023 3:36:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 3:04:00 AM
Surr: BFB	103	37.7-212		%Rec	1	1/6/2023 3:04:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/6/2023 3:04:00 AM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 3:04:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 3:04:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/6/2023 3:04:00 AM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/6/2023 3:04:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	1600	60		mg/Kg	20	1/6/2023 3:58:20 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-42 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 12:00:00 PM

Lab ID: 2301065-058

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	1/6/2023 3:47:17 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/6/2023 3:47:17 PM
Surr: DNOP	113	21-129		%Rec	1	1/6/2023 3:47:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/6/2023 3:23:00 AM
Surr: BFB	106	37.7-212		%Rec	1	1/6/2023 3:23:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 3:23:00 AM
Toluene	ND	0.050		mg/Kg	1	1/6/2023 3:23:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/6/2023 3:23:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/6/2023 3:23:00 AM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/6/2023 3:23:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	2700	150		mg/Kg	50	1/6/2023 1:59:36 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-42 2'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 12:05:00 PM

Lab ID: 2301065-059

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 3:58:06 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/6/2023 3:58:06 PM
Surr: DNOP	113	21-129		%Rec	1	1/6/2023 3:58:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/6/2023 3:43:00 AM
Surr: BFB	110	37.7-212		%Rec	1	1/6/2023 3:43:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 3:43:00 AM
Toluene	ND	0.050		mg/Kg	1	1/6/2023 3:43:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/6/2023 3:43:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/6/2023 3:43:00 AM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/6/2023 3:43:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	9800	600		mg/Kg	200	1/6/2023 2:11:57 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-42 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/31/2022 12:10:00 PM

Lab ID: 2301065-060

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 4:37:30 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/6/2023 4:37:30 PM
Surr: DNOP	108	21-129		%Rec	1	1/6/2023 4:37:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 4:02:00 AM
Surr: BFB	108	37.7-212		%Rec	1	1/6/2023 4:02:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 4:02:00 AM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 4:02:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 4:02:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/6/2023 4:02:00 AM
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	1/6/2023 4:02:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	1100	60		mg/Kg	20	1/6/2023 4:35:22 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-09 0'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 8:05:00 AM

Lab ID: 2301065-061

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	7300	290		mg/Kg	20	1/6/2023 10:34:43 AM
Motor Oil Range Organics (MRO)	4100	970		mg/Kg	20	1/6/2023 10:34:43 AM
Surr: DNOP	0	21-129	S	%Rec	20	1/6/2023 10:34:43 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	1/6/2023 8:06:00 PM
Surr: BFB	131	37.7-212		%Rec	5	1/6/2023 8:06:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.12		mg/Kg	5	1/6/2023 8:06:00 PM
Toluene	ND	0.24		mg/Kg	5	1/6/2023 8:06:00 PM
Ethylbenzene	ND	0.24		mg/Kg	5	1/6/2023 8:06:00 PM
Xylenes, Total	ND	0.49		mg/Kg	5	1/6/2023 8:06:00 PM
Surr: 4-Bromofluorobenzene	125	70-130		%Rec	5	1/6/2023 8:06:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	13000	610		mg/Kg	200	1/6/2023 2:24:18 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-09 2'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 8:10:00 AM

Lab ID: 2301065-062

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 6:02:11 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/6/2023 6:02:11 PM
Surr: DNOP	107	21-129		%Rec	1	1/6/2023 6:02:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 9:05:00 PM
Surr: BFB	114	37.7-212		%Rec	1	1/6/2023 9:05:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 9:05:00 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 9:05:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 9:05:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/6/2023 9:05:00 PM
Surr: 4-Bromofluorobenzene	126	70-130		%Rec	1	1/6/2023 9:05:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	10000	600		mg/Kg	200	1/6/2023 2:36:39 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-09 4'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 8:15:00 AM

Lab ID: 2301065-063

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	130	15		mg/Kg	1	1/6/2023 6:12:47 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/6/2023 6:12:47 PM
Surr: DNOP	105	21-129		%Rec	1	1/6/2023 6:12:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	1/6/2023 10:04:00 PM
Surr: BFB	112	37.7-212		%Rec	5	1/6/2023 10:04:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.12		mg/Kg	5	1/6/2023 10:04:00 PM
Toluene	ND	0.25		mg/Kg	5	1/6/2023 10:04:00 PM
Ethylbenzene	ND	0.25		mg/Kg	5	1/6/2023 10:04:00 PM
Xylenes, Total	ND	0.50		mg/Kg	5	1/6/2023 10:04:00 PM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	5	1/6/2023 10:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	9000	300		mg/Kg	100	1/10/2023 5:31:56 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-11 0'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 8:40:00 AM

Lab ID: 2301065-064

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	5400	300		mg/Kg	20	1/6/2023 6:23:22 PM
Motor Oil Range Organics (MRO)	3300	990		mg/Kg	20	1/6/2023 6:23:22 PM
Surr: DNOP	0	21-129	S	%Rec	20	1/6/2023 6:23:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	1/6/2023 10:24:00 PM
Surr: BFB	143	37.7-212		%Rec	5	1/6/2023 10:24:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.12		mg/Kg	5	1/6/2023 10:24:00 PM
Toluene	ND	0.24		mg/Kg	5	1/6/2023 10:24:00 PM
Ethylbenzene	ND	0.24		mg/Kg	5	1/6/2023 10:24:00 PM
Xylenes, Total	ND	0.48		mg/Kg	5	1/6/2023 10:24:00 PM
Surr: 4-Bromofluorobenzene	128	70-130		%Rec	5	1/6/2023 10:24:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	10000	600		mg/Kg	200	1/6/2023 3:01:21 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-11 2'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 8:45:00 AM

Lab ID: 2301065-065

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 6:33:56 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/6/2023 6:33:56 PM
Surr: DNOP	111	21-129		%Rec	1	1/6/2023 6:33:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/6/2023 10:43:00 PM
Surr: BFB	109	37.7-212		%Rec	1	1/6/2023 10:43:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 10:43:00 PM
Toluene	ND	0.050		mg/Kg	1	1/6/2023 10:43:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/6/2023 10:43:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/6/2023 10:43:00 PM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/6/2023 10:43:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	9400	300		mg/Kg	100	1/10/2023 6:08:59 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-11 4'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 8:50:00 AM

Lab ID: 2301065-066

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	19	15		mg/Kg	1	1/6/2023 6:44:28 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/6/2023 6:44:28 PM
Surr: DNOP	112	21-129		%Rec	1	1/6/2023 6:44:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 11:03:00 PM
Surr: BFB	107	37.7-212		%Rec	1	1/6/2023 11:03:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/6/2023 11:03:00 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 11:03:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 11:03:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/6/2023 11:03:00 PM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/6/2023 11:03:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	9700	300		mg/Kg	100	1/6/2023 3:50:44 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-13 0'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 9:05:00 AM

Lab ID: 2301065-067

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	18000	730		mg/Kg	50	1/6/2023 6:54:59 PM
Motor Oil Range Organics (MRO)	9700	2400		mg/Kg	50	1/6/2023 6:54:59 PM
Surr: DNOP	0	21-129	S	%Rec	50	1/6/2023 6:54:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	1/6/2023 11:23:00 PM
Surr: BFB	118	37.7-212		%Rec	5	1/6/2023 11:23:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.12		mg/Kg	5	1/6/2023 11:23:00 PM
Toluene	ND	0.25		mg/Kg	5	1/6/2023 11:23:00 PM
Ethylbenzene	ND	0.25		mg/Kg	5	1/6/2023 11:23:00 PM
Xylenes, Total	ND	0.49		mg/Kg	5	1/6/2023 11:23:00 PM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	5	1/6/2023 11:23:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	9700	600		mg/Kg	200	1/6/2023 4:03:06 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-13 2'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 9:10:00 AM

Lab ID: 2301065-068

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	130	15		mg/Kg	1	1/6/2023 7:15:52 PM
Motor Oil Range Organics (MRO)	81	49		mg/Kg	1	1/6/2023 7:15:52 PM
Surr: DNOP	111	21-129		%Rec	1	1/6/2023 7:15:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 11:42:00 PM
Surr: BFB	111	37.7-212		%Rec	1	1/6/2023 11:42:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/6/2023 11:42:00 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 11:42:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 11:42:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/6/2023 11:42:00 PM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/6/2023 11:42:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	13000	590		mg/Kg	200	1/6/2023 4:15:26 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-13 4'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 9:15:00 AM

Lab ID: 2301065-069

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	19	14		mg/Kg	1	1/6/2023 7:36:40 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/6/2023 7:36:40 PM
Surr: DNOP	118	21-129		%Rec	1	1/6/2023 7:36:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/7/2023 12:02:00 AM
Surr: BFB	116	37.7-212		%Rec	1	1/7/2023 12:02:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/7/2023 12:02:00 AM
Toluene	ND	0.049		mg/Kg	1	1/7/2023 12:02:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/7/2023 12:02:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/7/2023 12:02:00 AM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/7/2023 12:02:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	12000	600		mg/Kg	200	1/6/2023 4:27:47 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-14 0'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 9:25:00 AM

Lab ID: 2301065-070

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	23000	740		mg/Kg	50	1/6/2023 7:47:07 PM
Motor Oil Range Organics (MRO)	11000	2500		mg/Kg	50	1/6/2023 7:47:07 PM
Surr: DNOP	0	21-129	S	%Rec	50	1/6/2023 7:47:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	99	25		mg/Kg	5	1/10/2023 7:58:00 AM
Surr: BFB	163	37.7-212		%Rec	5	1/10/2023 7:58:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.12		mg/Kg	5	1/10/2023 7:58:00 AM
Toluene	ND	0.25		mg/Kg	5	1/10/2023 7:58:00 AM
Ethylbenzene	ND	0.25		mg/Kg	5	1/10/2023 7:58:00 AM
Xylenes, Total	4.9	0.50		mg/Kg	5	1/10/2023 7:58:00 AM
Surr: 4-Bromofluorobenzene	156	70-130	S	%Rec	5	1/10/2023 7:58:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	11000	600		mg/Kg	200	1/6/2023 4:40:08 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-14 2'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 9:30:00 AM

Lab ID: 2301065-071

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	5600	280		mg/Kg	20	1/6/2023 8:08:00 PM
Motor Oil Range Organics (MRO)	2300	930		mg/Kg	20	1/6/2023 8:08:00 PM
Surr: DNOP	0	21-129	S	%Rec	20	1/6/2023 8:08:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	71	24		mg/Kg	5	1/7/2023 1:01:00 AM
Surr: BFB	229	37.7-212	S	%Rec	5	1/7/2023 1:01:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.12		mg/Kg	5	1/7/2023 1:01:00 AM
Toluene	ND	0.24		mg/Kg	5	1/7/2023 1:01:00 AM
Ethylbenzene	0.35	0.24		mg/Kg	5	1/7/2023 1:01:00 AM
Xylenes, Total	2.5	0.49		mg/Kg	5	1/7/2023 1:01:00 AM
Surr: 4-Bromofluorobenzene	149	70-130	S	%Rec	5	1/7/2023 1:01:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	16000	600		mg/Kg	200	1/6/2023 4:52:29 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-14 4'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 9:35:00 AM

Lab ID: 2301065-072

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	5300	280		mg/Kg	20	1/6/2023 8:18:33 PM
Motor Oil Range Organics (MRO)	2400	950		mg/Kg	20	1/6/2023 8:18:33 PM
Surr: DNOP	0	21-129	S	%Rec	20	1/6/2023 8:18:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	67	24		mg/Kg	5	1/7/2023 1:20:00 AM
Surr: BFB	216	37.7-212	S	%Rec	5	1/7/2023 1:20:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.12		mg/Kg	5	1/7/2023 1:20:00 AM
Toluene	0.78	0.24		mg/Kg	5	1/7/2023 1:20:00 AM
Ethylbenzene	0.39	0.24		mg/Kg	5	1/7/2023 1:20:00 AM
Xylenes, Total	2.5	0.48		mg/Kg	5	1/7/2023 1:20:00 AM
Surr: 4-Bromofluorobenzene	146	70-130	S	%Rec	5	1/7/2023 1:20:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	19000	600		mg/Kg	200	1/6/2023 5:04:50 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-17 0'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 10:25:00 AM

Lab ID: 2301065-073

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	730	93		mg/Kg	10	1/10/2023 4:54:39 PM
Motor Oil Range Organics (MRO)	660	470		mg/Kg	10	1/10/2023 4:54:39 PM
Surr: DNOP	0	21-129	S	%Rec	10	1/10/2023 4:54:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/7/2023 1:40:00 AM
Surr: BFB	109	37.7-212		%Rec	1	1/7/2023 1:40:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/7/2023 1:40:00 AM
Toluene	ND	0.049		mg/Kg	1	1/7/2023 1:40:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/7/2023 1:40:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/7/2023 1:40:00 AM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/7/2023 1:40:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	3300	150		mg/Kg	50	1/6/2023 5:17:10 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-17 2'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 10:30:00 AM

Lab ID: 2301065-074

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 8:39:42 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/6/2023 8:39:42 PM
Surr: DNOP	115	21-129		%Rec	1	1/6/2023 8:39:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/7/2023 1:59:00 AM
Surr: BFB	106	37.7-212		%Rec	1	1/7/2023 1:59:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/7/2023 1:59:00 AM
Toluene	ND	0.048		mg/Kg	1	1/7/2023 1:59:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/7/2023 1:59:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/7/2023 1:59:00 AM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/7/2023 1:59:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	670	60		mg/Kg	20	1/6/2023 4:37:02 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-17 4'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 10:35:00 AM

Lab ID: 2301065-075

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 8:50:16 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/6/2023 8:50:16 PM
Surr: DNOP	115	21-129		%Rec	1	1/6/2023 8:50:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/7/2023 2:19:00 AM
Surr: BFB	104	37.7-212		%Rec	1	1/7/2023 2:19:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/7/2023 2:19:00 AM
Toluene	ND	0.049		mg/Kg	1	1/7/2023 2:19:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/7/2023 2:19:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/7/2023 2:19:00 AM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/7/2023 2:19:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	1100	61		mg/Kg	20	1/6/2023 4:49:27 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-43 0'

Project: East Pecos Pipeline Spill

Collection Date: 1/2/2023 7:25:00 AM

Lab ID: 2301065-076

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 9:00:50 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/6/2023 9:00:50 PM
Surr: DNOP	112	21-129		%Rec	1	1/6/2023 9:00:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/7/2023 2:38:00 AM
Surr: BFB	103	37.7-212		%Rec	1	1/7/2023 2:38:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/7/2023 2:38:00 AM
Toluene	ND	0.049		mg/Kg	1	1/7/2023 2:38:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/7/2023 2:38:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/7/2023 2:38:00 AM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/7/2023 2:38:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	120	60		mg/Kg	20	1/6/2023 5:01:52 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-43 2'

Project: East Pecos Pipeline Spill

Collection Date: 1/2/2023 7:30:00 AM

Lab ID: 2301065-077

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 9:11:19 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/6/2023 9:11:19 PM
Surr: DNOP	108	21-129		%Rec	1	1/6/2023 9:11:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/7/2023 2:58:00 AM
Surr: BFB	108	37.7-212		%Rec	1	1/7/2023 2:58:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/7/2023 2:58:00 AM
Toluene	ND	0.049		mg/Kg	1	1/7/2023 2:58:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/7/2023 2:58:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/7/2023 2:58:00 AM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/7/2023 2:58:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	97	60		mg/Kg	20	1/6/2023 5:14:17 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-43 4'

Project: East Pecos Pipeline Spill

Collection Date: 1/2/2023 7:35:00 AM

Lab ID: 2301065-078

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 9:21:55 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/6/2023 9:21:55 PM
Surr: DNOP	111	21-129		%Rec	1	1/6/2023 9:21:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/7/2023 3:17:00 AM
Surr: BFB	103	37.7-212		%Rec	1	1/7/2023 3:17:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/7/2023 3:17:00 AM
Toluene	ND	0.048		mg/Kg	1	1/7/2023 3:17:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/7/2023 3:17:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	1/7/2023 3:17:00 AM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/7/2023 3:17:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	99	60		mg/Kg	20	1/6/2023 5:51:32 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-44 0'

Project: East Pecos Pipeline Spill

Collection Date: 1/2/2023 7:45:00 AM

Lab ID: 2301065-079

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 9:32:29 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/6/2023 9:32:29 PM
Surr: DNOP	103	21-129		%Rec	1	1/6/2023 9:32:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/7/2023 3:37:00 AM
Surr: BFB	104	37.7-212		%Rec	1	1/7/2023 3:37:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/7/2023 3:37:00 AM
Toluene	ND	0.050		mg/Kg	1	1/7/2023 3:37:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/7/2023 3:37:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/7/2023 3:37:00 AM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/7/2023 3:37:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	1/6/2023 6:03:56 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-44 2'

Project: East Pecos Pipeline Spill

Collection Date: 1/2/2023 7:50:00 AM

Lab ID: 2301065-080

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 9:43:02 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/6/2023 9:43:02 PM
Surr: DNOP	113	21-129		%Rec	1	1/6/2023 9:43:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/7/2023 3:57:00 AM
Surr: BFB	104	37.7-212		%Rec	1	1/7/2023 3:57:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/7/2023 3:57:00 AM
Toluene	ND	0.049		mg/Kg	1	1/7/2023 3:57:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/7/2023 3:57:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/7/2023 3:57:00 AM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/7/2023 3:57:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	280	59		mg/Kg	20	1/6/2023 6:16:21 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-44 4'

Project: East Pecos Pipeline Spill

Collection Date: 1/2/2023 7:55:00 AM

Lab ID: 2301065-081

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 10:25:07 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/6/2023 10:25:07 PM
Surr: DNOP	110	21-129		%Rec	1	1/6/2023 10:25:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 11:52:35 AM
Surr: BFB	91.9	37.7-212		%Rec	1	1/6/2023 11:52:35 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/6/2023 11:52:35 AM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 11:52:35 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 11:52:35 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/6/2023 11:52:35 AM
Surr: 4-Bromofluorobenzene	86.1	70-130		%Rec	1	1/6/2023 11:52:35 AM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	340	60		mg/Kg	20	1/6/2023 6:28:46 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-45 0'

Project: East Pecos Pipeline Spill

Collection Date: 1/2/2023 8:10:00 AM

Lab ID: 2301065-082

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/6/2023 10:56:42 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/6/2023 10:56:42 PM
Surr: DNOP	114	21-129		%Rec	1	1/6/2023 10:56:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 1:02:54 PM
Surr: BFB	91.6	37.7-212		%Rec	1	1/6/2023 1:02:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/6/2023 1:02:54 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 1:02:54 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 1:02:54 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/6/2023 1:02:54 PM
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	1/6/2023 1:02:54 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	1/6/2023 1:45:00 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-45 2'

Project: East Pecos Pipeline Spill

Collection Date: 1/2/2023 8:15:00 AM

Lab ID: 2301065-083

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 11:07:16 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/6/2023 11:07:16 PM
Surr: DNOP	113	21-129		%Rec	1	1/6/2023 11:07:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/6/2023 2:13:29 PM
Surr: BFB	91.4	37.7-212		%Rec	1	1/6/2023 2:13:29 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/6/2023 2:13:29 PM
Toluene	ND	0.048		mg/Kg	1	1/6/2023 2:13:29 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/6/2023 2:13:29 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/6/2023 2:13:29 PM
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	1/6/2023 2:13:29 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	61		mg/Kg	20	1/6/2023 2:22:13 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301065

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-45 4'

Project: East Pecos Pipeline Spill

Collection Date: 1/2/2023 8:20:00 AM

Lab ID: 2301065-084

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/6/2023 11:17:51 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/6/2023 11:17:51 PM
Surr: DNOP	108	21-129		%Rec	1	1/6/2023 11:17:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/6/2023 2:37:07 PM
Surr: BFB	90.7	37.7-212		%Rec	1	1/6/2023 2:37:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/6/2023 2:37:07 PM
Toluene	ND	0.048		mg/Kg	1	1/6/2023 2:37:07 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/6/2023 2:37:07 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/6/2023 2:37:07 PM
Surr: 4-Bromofluorobenzene	85.3	70-130		%Rec	1	1/6/2023 2:37:07 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	ND	60		mg/Kg	20	1/6/2023 2:34:37 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301065

16-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: MB-72456	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 72456		RunNo: 93717							
Prep Date: 1/4/2023	Analysis Date: 1/4/2023		SeqNo: 3382874		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72456	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 72456		RunNo: 93717							
Prep Date: 1/4/2023	Analysis Date: 1/4/2023		SeqNo: 3382875		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.8	90	110			

Sample ID: MB-72462	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 72462		RunNo: 93760							
Prep Date: 1/5/2023	Analysis Date: 1/5/2023		SeqNo: 3384333		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72462	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 72462		RunNo: 93760							
Prep Date: 1/5/2023	Analysis Date: 1/5/2023		SeqNo: 3384334		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.9	90	110			

Sample ID: MB-72475	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 72475		RunNo: 93760							
Prep Date: 1/5/2023	Analysis Date: 1/5/2023		SeqNo: 3384365		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72475	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 72475		RunNo: 93760							
Prep Date: 1/5/2023	Analysis Date: 1/5/2023		SeqNo: 3384366		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301065

16-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: MB-72477	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72477	RunNo: 93760								
Prep Date: 1/5/2023	Analysis Date: 1/5/2023	SeqNo: 3384397 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72477	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72477	RunNo: 93760								
Prep Date: 1/5/2023	Analysis Date: 1/5/2023	SeqNo: 3384398 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.4	90	110			

Sample ID: MB-72484	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72484	RunNo: 93773								
Prep Date: 1/5/2023	Analysis Date: 1/6/2023	SeqNo: 3385331 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72484	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72484	RunNo: 93773								
Prep Date: 1/5/2023	Analysis Date: 1/6/2023	SeqNo: 3385332 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.2	90	110			

Sample ID: MB-72496	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72496	RunNo: 93780								
Prep Date: 1/6/2023	Analysis Date: 1/6/2023	SeqNo: 3385530 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72496	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72496	RunNo: 93780								
Prep Date: 1/6/2023	Analysis Date: 1/6/2023	SeqNo: 3385531 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.8	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301065

16-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: 2301065-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-54 0'	Batch ID: 72455	RunNo: 93740								
Prep Date: 1/4/2023	Analysis Date: 1/5/2023	SeqNo: 3384566 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	15	50.25	0	95.1	36.1	154			
Surr: DNOP	6.3		5.025		126	21	129			

Sample ID: 2301065-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-54 0'	Batch ID: 72455	RunNo: 93740								
Prep Date: 1/4/2023	Analysis Date: 1/5/2023	SeqNo: 3384567 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	14	47.62	0	93.8	36.1	154	6.75	33.9	
Surr: DNOP	5.8		4.762		122	21	129	0	0	

Sample ID: 2301065-021AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-52 4'	Batch ID: 72457	RunNo: 93740								
Prep Date: 1/4/2023	Analysis Date: 1/6/2023	SeqNo: 3384588 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	15	49.02	0	102	36.1	154			
Surr: DNOP	6.5		4.902		133	21	129			S

Sample ID: 2301065-021AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-52 4'	Batch ID: 72457	RunNo: 93740								
Prep Date: 1/4/2023	Analysis Date: 1/6/2023	SeqNo: 3384589 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	15	48.83	0	111	36.1	154	7.15	33.9	
Surr: DNOP	7.0		4.883		144	21	129	0	0	S

Sample ID: LCS-72455	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72455	RunNo: 93740								
Prep Date: 1/4/2023	Analysis Date: 1/5/2023	SeqNo: 3384611 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	15	50.00	0	107	64.4	127			
Surr: DNOP	6.9		5.000		139	21	129			S

Sample ID: LCS-72457	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72457	RunNo: 93740								
Prep Date: 1/4/2023	Analysis Date: 1/6/2023	SeqNo: 3384612 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
 E Above Quantitation Range/Estimated Value
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301065

16-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: LCS-72457	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 72457		RunNo: 93740							
Prep Date: 1/4/2023	Analysis Date: 1/6/2023		SeqNo: 3384612		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	15	50.00	0	105	64.4	127			
Surr: DNOP	6.7		5.000		134	21	129			S

Sample ID: MB-72455	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 72455		RunNo: 93740							
Prep Date: 1/4/2023	Analysis Date: 1/5/2023		SeqNo: 3384615		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		124	21	129			

Sample ID: MB-72457	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 72457		RunNo: 93740							
Prep Date: 1/4/2023	Analysis Date: 1/6/2023		SeqNo: 3384616		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		128	21	129			

Sample ID: 2301065-041AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH22-58 2'	Batch ID: 72463		RunNo: 93809							
Prep Date: 1/5/2023	Analysis Date: 1/6/2023		SeqNo: 3386471		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	14	46.47	0	98.3	36.1	154			
Surr: DNOP	5.4		4.647		117	21	129			

Sample ID: 2301065-041AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH22-58 2'	Batch ID: 72463		RunNo: 93809							
Prep Date: 1/5/2023	Analysis Date: 1/6/2023		SeqNo: 3386472		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	14	48.22	0	112	36.1	154	16.9	33.9	
Surr: DNOP	5.9		4.822		123	21	129	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301065

16-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: 2301065-081AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-44 4'	Batch ID: 72476	RunNo: 93809								
Prep Date: 1/5/2023	Analysis Date: 1/6/2023	SeqNo: 3386513 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	14	46.73	0	92.0	36.1	154			
Surr: DNOP	5.5		4.673		117	21	129			

Sample ID: 2301065-081AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-44 4'	Batch ID: 72476	RunNo: 93809								
Prep Date: 1/5/2023	Analysis Date: 1/6/2023	SeqNo: 3386514 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	48.54	0	91.6	36.1	154	3.45	33.9	
Surr: DNOP	5.5		4.854		114	21	129	0	0	

Sample ID: LCS-72463	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72463	RunNo: 93809								
Prep Date: 1/5/2023	Analysis Date: 1/6/2023	SeqNo: 3386534 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	15	50.00	0	102	64.4	127			
Surr: DNOP	6.0		5.000		120	21	129			

Sample ID: LCS-72473	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72473	RunNo: 93809								
Prep Date: 1/5/2023	Analysis Date: 1/6/2023	SeqNo: 3386535 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	15	50.00	0	100	64.4	127			
Surr: DNOP	6.0		5.000		121	21	129			

Sample ID: LCS-72476	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72476	RunNo: 93809								
Prep Date: 1/5/2023	Analysis Date: 1/6/2023	SeqNo: 3386536 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	15	50.00	0	93.7	64.4	127			
Surr: DNOP	5.9		5.000		118	21	129			

Sample ID: MB-72463	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72463	RunNo: 93809								
Prep Date: 1/5/2023	Analysis Date: 1/6/2023	SeqNo: 3386537 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301065

16-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: MB-72463	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 72463		RunNo: 93809							
Prep Date: 1/5/2023	Analysis Date: 1/6/2023		SeqNo: 3386537		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		112	21	129			

Sample ID: MB-72473	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 72473		RunNo: 93809							
Prep Date: 1/5/2023	Analysis Date: 1/6/2023		SeqNo: 3386538		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		103	21	129			

Sample ID: MB-72476	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 72476		RunNo: 93809							
Prep Date: 1/5/2023	Analysis Date: 1/6/2023		SeqNo: 3386539		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.3	21	129			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301065

16-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: ics-72452	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 72452			RunNo: 93748						
Prep Date: 1/4/2023	Analysis Date: 1/5/2023			SeqNo: 3383892		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	72.3	137			
Surr: BFB	2300		1000		230	37.7	212			S

Sample ID: mb-72452	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 72452			RunNo: 93748						
Prep Date: 1/4/2023	Analysis Date: 1/5/2023			SeqNo: 3383893		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	37.7	212			

Sample ID: 2301065-021ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH22-52 4'	Batch ID: 72452			RunNo: 93748						
Prep Date: 1/4/2023	Analysis Date: 1/5/2023			SeqNo: 3383895		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.9	24.61	0	114	70	130			
Surr: BFB	2400		984.3		244	37.7	212			S

Sample ID: 2301065-021amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH22-52 4'	Batch ID: 72452			RunNo: 93748						
Prep Date: 1/4/2023	Analysis Date: 1/5/2023			SeqNo: 3383896		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.68	0	111	70	130	2.51	20	
Surr: BFB	2500		987.2		256	37.7	212	0	0	S

Sample ID: ics-72458	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 72458			RunNo: 93748						
Prep Date: 1/4/2023	Analysis Date: 1/5/2023			SeqNo: 3383916		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.7	72.3	137			
Surr: BFB	2200		1000		217	37.7	212			S

Sample ID: mb-72458	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 72458			RunNo: 93748						
Prep Date: 1/4/2023	Analysis Date: 1/5/2023			SeqNo: 3383917		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301065

16-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: mb-72458	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 72458		RunNo: 93748							
Prep Date: 1/4/2023	Analysis Date: 1/5/2023		SeqNo: 3383917		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	37.7	212			

Sample ID: 2301065-041ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH22-58 2'	Batch ID: 72458		RunNo: 93748							
Prep Date: 1/4/2023	Analysis Date: 1/5/2023		SeqNo: 3383919		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.63	0	110	70	130			
Surr: BFB	2500		985.2		250	37.7	212			S

Sample ID: 2301065-041amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH22-58 2'	Batch ID: 72458		RunNo: 93748							
Prep Date: 1/4/2023	Analysis Date: 1/5/2023		SeqNo: 3383920		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	24.90	0	102	70	130	6.93	20	
Surr: BFB	2300		996.0		235	37.7	212	0	0	S

Sample ID: lcs-72444	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 72444		RunNo: 93788							
Prep Date: 1/4/2023	Analysis Date: 1/6/2023		SeqNo: 3385739		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.2	72.3	137			
Surr: BFB	2200		1000		222	37.7	212			S

Sample ID: mb-72444	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 72444		RunNo: 93788							
Prep Date: 1/4/2023	Analysis Date: 1/6/2023		SeqNo: 3385740		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		111	37.7	212			

Sample ID: 2301065-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH22-54 0'	Batch ID: 72444		RunNo: 93788							
Prep Date: 1/4/2023	Analysis Date: 1/6/2023		SeqNo: 3385742		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301065

16-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: 2301065-001ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-54 0'	Batch ID: 72444	RunNo: 93788								
Prep Date: 1/4/2023	Analysis Date: 1/6/2023	SeqNo: 3385742 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	24.18	0	98.2	70	130			
Surr: BFB	2300		967.1		234	37.7	212			S

Sample ID: 2301065-001amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-54 0'	Batch ID: 72444	RunNo: 93788								
Prep Date: 1/4/2023	Analysis Date: 1/6/2023	SeqNo: 3385743 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.37	0	96.8	70	130	0.659	20	
Surr: BFB	2300		974.7		241	37.7	212	0	0	S

Sample ID: lcs-72461	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 72461	RunNo: 93788								
Prep Date: 1/5/2023	Analysis Date: 1/6/2023	SeqNo: 3385763 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.3	72.3	137			
Surr: BFB	2300		1000		228	37.7	212			S

Sample ID: mb-72461	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 72461	RunNo: 93788								
Prep Date: 1/5/2023	Analysis Date: 1/6/2023	SeqNo: 3385764 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		110	37.7	212			

Sample ID: 2301065-061ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-09 0'	Batch ID: 72461	RunNo: 93788								
Prep Date: 1/5/2023	Analysis Date: 1/6/2023	SeqNo: 3385766 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	47	24	24.27	19.24	115	70	130			
Surr: BFB	7800		4854		161	37.7	212			

Sample ID: 2301065-061amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-09 0'	Batch ID: 72461	RunNo: 93788								
Prep Date: 1/5/2023	Analysis Date: 1/6/2023	SeqNo: 3385767 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301065

16-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: 2301065-061amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-09 0'	Batch ID: 72461	RunNo: 93788								
Prep Date: 1/5/2023	Analysis Date: 1/6/2023	SeqNo: 3385767 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	43	24	24.37	19.24	99.4	70	130	7.99	20	
Surr: BFB	7500		4873		154	37.7	212	0	0	

Sample ID: lcs-72468	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 72468	RunNo: 93793								
Prep Date: 1/5/2023	Analysis Date: 1/6/2023	SeqNo: 3386251 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.5	72.3	137			
Surr: BFB	1800		1000		183	37.7	212			

Sample ID: mb-72468	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 72468	RunNo: 93793								
Prep Date: 1/5/2023	Analysis Date: 1/6/2023	SeqNo: 3386253 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.3	37.7	212			

Sample ID: 2301065-081ams	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-44 4'	Batch ID: 72468	RunNo: 93793								
Prep Date: 1/5/2023	Analysis Date: 1/6/2023	SeqNo: 3386259 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.46	0	89.1	70	130			
Surr: BFB	1800		978.5		185	37.7	212			

Sample ID: 2301065-081amsd	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-44 4'	Batch ID: 72468	RunNo: 93793								
Prep Date: 1/5/2023	Analysis Date: 1/6/2023	SeqNo: 3386260 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.39	0	96.6	70	130	7.76	20	
Surr: BFB	1900		975.6		191	37.7	212	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301065

16-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: ics-72452	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72452		RunNo: 93748							
Prep Date: 1/4/2023	Analysis Date: 1/5/2023		SeqNo: 3383949		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	112	80	120			
Toluene	1.1	0.050	1.000	0	113	80	120			
Ethylbenzene	1.1	0.050	1.000	0	111	80	120			
Xylenes, Total	3.3	0.10	3.000	0	111	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		124	70	130			

Sample ID: mb-72452	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72452		RunNo: 93748							
Prep Date: 1/4/2023	Analysis Date: 1/5/2023		SeqNo: 3383950		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		124	70	130			

Sample ID: ics-72458	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72458		RunNo: 93748							
Prep Date: 1/4/2023	Analysis Date: 1/5/2023		SeqNo: 3383974		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	109	80	120			
Toluene	1.1	0.050	1.000	0	110	80	120			
Ethylbenzene	1.1	0.050	1.000	0	110	80	120			
Xylenes, Total	3.3	0.10	3.000	0	111	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		124	70	130			

Sample ID: mb-72458	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72458		RunNo: 93748							
Prep Date: 1/4/2023	Analysis Date: 1/5/2023		SeqNo: 3383975		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		124	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301065

16-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: ics-72444	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72444		RunNo: 93788							
Prep Date: 1/4/2023	Analysis Date: 1/6/2023		SeqNo: 3385828		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	111	80	120			
Toluene	1.1	0.050	1.000	0	113	80	120			
Ethylbenzene	1.1	0.050	1.000	0	112	80	120			
Xylenes, Total	3.4	0.10	3.000	0	112	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		125	70	130			

Sample ID: mb-72444	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72444		RunNo: 93788							
Prep Date: 1/4/2023	Analysis Date: 1/6/2023		SeqNo: 3385829		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		125	70	130			

Sample ID: 2301065-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-54 2'	Batch ID: 72444		RunNo: 93788							
Prep Date: 1/4/2023	Analysis Date: 1/6/2023		SeqNo: 3385832		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9804	0	106	68.8	120			
Toluene	1.1	0.049	0.9804	0	108	73.6	124			
Ethylbenzene	1.1	0.049	0.9804	0	109	72.7	129			
Xylenes, Total	3.2	0.098	2.941	0	109	75.7	126			
Surr: 4-Bromofluorobenzene	1.2		0.9804		125	70	130			

Sample ID: 2301065-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-54 2'	Batch ID: 72444		RunNo: 93788							
Prep Date: 1/4/2023	Analysis Date: 1/6/2023		SeqNo: 3385833		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9690	0	103	68.8	120	4.21	20	
Toluene	1.0	0.048	0.9690	0	105	73.6	124	3.97	20	
Ethylbenzene	1.0	0.048	0.9690	0	106	72.7	129	4.57	20	
Xylenes, Total	3.1	0.097	2.907	0	106	75.7	126	4.35	20	
Surr: 4-Bromofluorobenzene	1.2		0.9690		125	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301065

16-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: lcs-72461	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72461		RunNo: 93788							
Prep Date: 1/5/2023	Analysis Date: 1/6/2023		SeqNo: 3385852		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	107	80	120			
Toluene	1.1	0.050	1.000	0	108	80	120			
Ethylbenzene	1.1	0.050	1.000	0	109	80	120			
Xylenes, Total	3.3	0.10	3.000	0	109	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		128	70	130			

Sample ID: mb-72461	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72461		RunNo: 93788							
Prep Date: 1/5/2023	Analysis Date: 1/6/2023		SeqNo: 3385853		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.3		1.000		129	70	130			

Sample ID: 2301065-082ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-45 0'	Batch ID: 72468		RunNo: 93793							
Prep Date: 1/5/2023	Analysis Date: 1/6/2023		SeqNo: 3386311		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.78	0.024	0.9728	0	80.4	68.8	120			
Toluene	0.83	0.049	0.9728	0	84.9	73.6	124			
Ethylbenzene	0.84	0.049	0.9728	0	86.3	72.7	129			
Xylenes, Total	2.5	0.097	2.918	0	86.6	75.7	126			
Surr: 4-Bromofluorobenzene	0.83		0.9728		85.2	70	130			

Sample ID: 2301065-082amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-45 0'	Batch ID: 72468		RunNo: 93793							
Prep Date: 1/5/2023	Analysis Date: 1/6/2023		SeqNo: 3386312		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.024	0.9794	0	80.3	68.8	120	0.521	20	
Toluene	0.84	0.049	0.9794	0	85.5	73.6	124	1.43	20	
Ethylbenzene	0.86	0.049	0.9794	0	87.7	72.7	129	2.20	20	
Xylenes, Total	2.6	0.098	2.938	0	87.5	75.7	126	1.68	20	
Surr: 4-Bromofluorobenzene	0.84		0.9794		85.5	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301065

16-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: mb-72468	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72468		RunNo: 93793							
Prep Date: 1/5/2023	Analysis Date: 1/6/2023		SeqNo: 3386355		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.7	70	130			

Sample ID: 2301065-022ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-53 0'	Batch ID: 72452		RunNo: 93823							
Prep Date: 1/4/2023	Analysis Date: 1/10/2023		SeqNo: 3386930		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9452	0	107	68.8	120			
Toluene	1.0	0.047	0.9452	0	109	73.6	124			
Ethylbenzene	1.0	0.047	0.9452	0	109	72.7	129			
Xylenes, Total	3.1	0.095	2.836	0	110	75.7	126			
Surr: 4-Bromofluorobenzene	1.1		0.9452		121	70	130			

Sample ID: 2301065-022amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-53 0'	Batch ID: 72452		RunNo: 93823							
Prep Date: 1/4/2023	Analysis Date: 1/10/2023		SeqNo: 3386931		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.024	0.9434	0	99.0	68.8	120	7.67	20	
Toluene	0.98	0.047	0.9434	0	104	73.6	124	4.75	20	
Ethylbenzene	0.99	0.047	0.9434	0	105	72.7	129	4.29	20	
Xylenes, Total	3.0	0.094	2.830	0	105	75.7	126	4.43	20	
Surr: 4-Bromofluorobenzene	1.2		0.9434		122	70	130	0	0	

Sample ID: 2301065-042ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-58 4'	Batch ID: 72458		RunNo: 93823							
Prep Date: 1/4/2023	Analysis Date: 1/10/2023		SeqNo: 3386932		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.024	0.9709	0	101	68.8	120			
Toluene	1.0	0.049	0.9709	0	103	73.6	124			
Ethylbenzene	1.0	0.049	0.9709	0	103	72.7	129			
Xylenes, Total	3.0	0.097	2.913	0	104	75.7	126			
Surr: 4-Bromofluorobenzene	1.2		0.9709		124	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301065

16-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: 2301065-042amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-58 4'	Batch ID: 72458	RunNo: 93823								
Prep Date: 1/4/2023	Analysis Date: 1/10/2023	SeqNo: 3386933	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.024	0.9643	0	101	68.8	120	0.00428	20	
Toluene	1.0	0.048	0.9643	0	104	73.6	124	0.304	20	
Ethylbenzene	1.0	0.048	0.9643	0	104	72.7	129	0.172	20	
Xylenes, Total	3.0	0.096	2.893	0	104	75.7	126	0.445	20	
Surr: 4-Bromofluorobenzene	1.2		0.9643		124	70	130	0	0	

Sample ID: 2301065-062ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-09 2'	Batch ID: 72461	RunNo: 93823								
Prep Date: 1/5/2023	Analysis Date: 1/10/2023	SeqNo: 3386934	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9814	0	102	68.8	120			
Toluene	1.0	0.049	0.9814	0	104	73.6	124			
Ethylbenzene	1.0	0.049	0.9814	0	104	72.7	129			
Xylenes, Total	3.1	0.098	2.944	0	104	75.7	126			
Surr: 4-Bromofluorobenzene	1.2		0.9814		125	70	130			

Sample ID: 2301065-062amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-09 2'	Batch ID: 72461	RunNo: 93823								
Prep Date: 1/5/2023	Analysis Date: 1/10/2023	SeqNo: 3386935	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9881	0	102	68.8	120	0.581	20	
Toluene	1.0	0.049	0.9881	0	104	73.6	124	0.829	20	
Ethylbenzene	1.0	0.049	0.9881	0	104	72.7	129	0.705	20	
Xylenes, Total	3.1	0.099	2.964	0	104	75.7	126	0.716	20	
Surr: 4-Bromofluorobenzene	1.2		0.9881		122	70	130	0	0	

Sample ID: LCS-72468	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 72468	RunNo: 93875								
Prep Date: 1/5/2023	Analysis Date: 1/11/2023	SeqNo: 3388801	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.3	80	120			
Toluene	0.93	0.050	1.000	0	93.0	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.7	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

Sample Log-In Check List

Client Name: Vertex Resources
Services, Inc.

Work Order Number: 2301065

RcptNo: 1

Received By: Tracy Casarrubias 1/4/2023 7:15:00 AM

Completed By: Tracy Casarrubias 1/4/2023 8:16:55 AM

Reviewed By: *m 1/4/23*

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *SGC 1/4/23*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

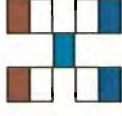
Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good	Yes			



HALL ENVIRONMENTAL ANALYSIS LABORATORY

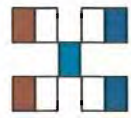
www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time:					
<input checked="" type="checkbox"/> Standard		<input checked="" type="checkbox"/> Rush 5 Day			
Project Name:					
East Pecos Pipeline Spill					
Project #:					
22E-03982					
Project Manager:					
Kent Stallings					
kstallings@vertex.ca					
Sampler: L. Pullman, M.W.					
On Ice:		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
# of Coolers:		YOGI			
Cooler Temp (including CF):		S3 - Ø = S3.2			
Container Type and #		Preservative Type			
1, 4oz jar		HEAL No. 22-2301005			
1, 4oz jar		001			
1, 4oz jar		002			
1, 4oz jar		003			
1, 4oz jar		004			
1, 4oz jar		005			
1, 4oz jar		006			
1, 4oz jar		007			
1, 4oz jar		008			
1, 4oz jar		009			
1, 4oz jar		010			
1, 4oz jar		011			
1, 4oz jar		012			
Received by:		Via:		Date	Time
[Signature]				1/3/23	7:00
Received by:		Via:		Date	Time
[Signature]				1/4/23	7:15

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. Any sub-contracted data will be clearly notated on the analytical report.



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Reactive On Call: 487-7023 (24/7) Record		Turn-Around Time:	
Client:	Vertex (direct bill to Devon)	<input checked="" type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush
Mailing Address:		Project Name:	
Phone #:		East Pecos Pipeline Spill	
email or Fax#:		Project #:	
QA/QC Package:		22E-03982	
<input type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)	Project Manager:	
Accreditation:		Kent Stallings	
<input type="checkbox"/> NELAC	<input type="checkbox"/> Az Compliance	kstallings@vertex.ca	
<input type="checkbox"/> EDD (Type)	<input type="checkbox"/> Other	Sampler:	
		L. Pullman, M.W.	
		On Ice:	
		<input checked="" type="checkbox"/> Yes	
		<input type="checkbox"/> No	
		# of Coolers:	
		1	

Date	Time	Matrix	Sample Name	Cooler Temp (including CP): 53-8-53-1			TPH: 8015D	8081 Pestic	EDB (Metho	PAHs by 83	RCRA 8 Me	Cl, F, Br, N	8260 (VOA)	8270 (Semi	Total Colifo
				Container Type and #	Preservative Type	HEAL No.									
12/29/22	12:15	Soil	BH22-50 0'	1, 4oz jar		2301065	X					X			
12/29/22	12:20	Soil	BH22-50 2'	1, 4oz jar		014	X					X			
12/29/22	12:25	Soil	BH22-50 4'	1, 4oz jar		015	X					X			
12/29/22	11:45	Soil	BH22-51 0'	1, 4oz jar		016	X					X			
12/29/22	11:50	Soil	BH22-51 2'	1, 4oz jar		017	X					X			
12/29/22	11:55	Soil	BH22-51 4'	1, 4oz jar		018	X					X			
12/29/22	10:00	Soil	BH22-52 0'	1, 4oz jar		019	X					X			
12/29/22	10:05	Soil	BH22-52 2'	1, 4oz jar		020	X					X			
12/29/22	10:10	Soil	BH22-52 4'	1, 4oz jar		021	X					X			
12/29/22	9:45	Soil	BH22-53 0'	1, 4oz jar		022	X					X			
12/29/22	9:50	Soil	BH22-53 2'	1, 4oz jar		023	X					X			
12/29/22	9:55	Soil	BH22-53 4'	1, 4oz jar		024	X					X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time	Remarks:
1-3-2013	07:30	<i>[Signature]</i>	<i>[Signature]</i>		1/3/23	7:00	Direct bill to Devon, Jim Raley cc. kstallings@vertex.ca and mpeppin@vertex.ca for Final Report
1/3/23	19:02	<i>[Signature]</i>	<i>[Signature]</i>	Via email	1/4/23	7:15	

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



HALL ENVIRONMENTAL ANALYSIS LABORATORY

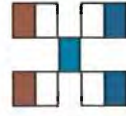
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Turn-Around Time: ☒ Standard ☒ Rush 5 Day
Project Name: East Pecos Pipeline Spill
Project #: 22E-03982
Project Manager: Kent Stallings
Sampler: L. Pullman
On Ice: ☒ Yes ☐ No
of Coolers: 1
Cooler Temp (including CP): 5.3 - 0 = 5.3 °C
HEAL No. 2301065
Container Type and # 1, 4oz jar
Preservative Type 037
Date Time Matrix Sample Name

12/31/22	9:25	Soil	BH22-57 0'
12/31/22	9:30	Soil	BH22-57 2'
12/31/22	9:35	Soil	BH22-57 4'
12/31/22	9:10	Soil	BH22-58 0'
12/31/22	9:15	Soil	BH22-58 2'
12/31/22	9:20	Soil	BH22-58 4'
12/31/22	8:55	Soil	BH22-59 0'
12/31/22	9:00	Soil	BH22-59 2'
12/31/22	9:05	Soil	BH22-59 4'
12/31/22	8:40	Soil	BH22-60 0'
12/31/22	8:45	Soil	BH22-60 2'
12/31/22	8:50	Soil	BH22-60 4'

Relinquished by: Saban Pullman Date: 1-3-2023 Time: 07:00
Relinquished by: [Signature] Date: 1/11/23 Time: 19:00
Received by: [Signature] Date: 1/3/23 Time: 7:00
Received by: [Signature] Date: 1/11/23 Time: 7:15

Analysis Request
TPH:8015D(GRO / DRO / MRO) ☒
8081 Pesticides/8082 PCB's ☒
EDB (Method 504.1) ☒
PAHs by 8310 or 8270SIMS ☒
RCRA 8 Metals ☒
Cl, F, Br, NO₃, NO₂, PO₄, SO₄ ☒
8260 (VOA) ☒
8270 (Semi-VOA) ☒
Total Coliform (Present/Absent) ☒
BTEX / MTBE / TMB's (8021) ☒
Remarks:
Direct bill to Devon, Jim Raley
cc. kstallings@vertex.ca and mpeppin@vertex.ca for Final Report



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

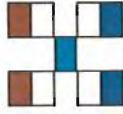
Tel. 505-345-3975 Fax 505-345-4107

Client: Vertex (direct bill to Devon)		Turn-Around Time: <input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush <u>9 Days</u>	
Mailing Address:		Project Name: East Pecos Pipeline Spill	
Phone #:		Project #:	
email or Fax#:		22E-03982	
QA/QC Package: <input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		Project Manager: Kent Stallings kstallings@vertex.ca	
Accreditation: <input type="checkbox"/> Az Compliance <input type="checkbox"/> NELAC <input type="checkbox"/> Other _____		Sampler: L. Pullman	
<input type="checkbox"/> EDD (Type) _____		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
		# of Coolers: <u>1</u> YOGI	
		Cooler Temp (including CP): <u>5.3-8 = 5.3</u>	
Date	Time	Matrix	Sample Name
12/31/22	11:00	Soil	BH22-38 0'
12/31/22	11:05	Soil	BH22-38 2'
12/31/22	11:10	Soil	BH22-38 4'
12/31/22	11:15	Soil	BH22-39 0'
12/31/22	11:20	Soil	BH22-39 2'
12/31/22	11:25	Soil	BH22-39 4'
12/31/22	11:45	Soil	BH22-41 0'
12/31/22	11:50	Soil	BH22-41 2'
12/31/22	11:55	Soil	BH22-41 4'
12/31/22	12:00	Soil	BH22-42 0'
12/31/22	12:05	Soil	BH22-42 2'
12/31/22	12:10	Soil	BH22-42 4'
Date: <u>1-3-2023</u> Time: <u>07:00</u>		Relinquished by: <u>Sahant Pullman</u>	
Date: <u>1/13/23</u> Time: <u>19:00</u>		Relinquished by: <u>[Signature]</u>	

Container Type and #	Preservative Type	HEAL No.
1, 4oz jar		2361065
1, 4oz jar		049
1, 4oz jar		050
1, 4oz jar		051
1, 4oz jar		052
1, 4oz jar		053
1, 4oz jar		054
1, 4oz jar		055
1, 4oz jar		056
1, 4oz jar		057
1, 4oz jar		058
1, 4oz jar		059
1, 4oz jar		060

Received by: <u>[Signature]</u>	Via:	Date: <u>1/13/23</u>	Time: <u>7:00</u>
Received by: <u>[Signature]</u>	Via: <u>Car</u>	Date: <u>1/14/23</u>	Time: <u>7:15</u>

if necessary, samples submitted to Hal 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.

[illegible]

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



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Receive Order # 4370238282 Record		Turn-Around Time: <input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush <u>5 Day</u>	
Client: Vertex		Project Name:	
Mailing Address: (direct bill to Devon)		East Pecos Pipeline Spill	
Phone #:		Project #:	
email or Fax#:		22E-03982	
QA/QC Package:		Project Manager:	
<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		Kent Stallings	
Accreditation: <input type="checkbox"/> Az Compliance		kstallings@vertex.ca	
<input type="checkbox"/> NELAC <input type="checkbox"/> Other		Sampler: L. Pullman	
<input type="checkbox"/> EDD (Type)		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
		# of Coolers: <u>1</u> <u>YOG</u>	
		Cooler Temp (including CP): <u>5.3-8 = 5.3</u>	
		Container Type and #	Preservative Type
			HEAL No.
Date	Time	Sample Name	
01/01/23	10:25	BH22-17 0'	1, 4oz jar
01/01/23	10:30	BH22-17 2'	1, 4oz jar
01/01/23	10:35	BH22-17 4'	1, 4oz jar
01/02/23	7:25	BH22-43 0'	1, 4oz jar
01/02/23	7:30	BH22-43 2'	1, 4oz jar
01/02/23	7:35	BH22-43 4'	1, 4oz jar
01/02/23	7:45	BH22-44 0'	1, 4oz jar
01/02/23	7:50	BH22-44 2'	1, 4oz jar
01/02/23	7:55	BH22-44 4'	1, 4oz jar
01/02/23	8:10	BH22-45 0'	1, 4oz jar
01/02/23	8:15	BH22-45 2'	1, 4oz jar
01/02/23	8:20	BH22-45 4'	1, 4oz jar
Date:	Time:	Relinquished by:	Received by:
1-3-2023	07:00	Robert Pullman	<u>[Signature]</u> Date: 1/3/23 Time: 7:00
Date:	Time:	Relinquished by:	Received by:
1/3/23	11:00	<u>[Signature]</u>	<u>[Signature]</u> Date: 1/4/23 Time: 7:15

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



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

January 16, 2023

Monica Peppin

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (505) 350-1336

FAX:

RE: East Pecos Pipeline Spill

OrderNo.: 2301068

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 32 sample(s) on 1/4/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-01 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/28/2022 10:00:00 AM

Lab ID: 2301068-001

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	5100	130		mg/Kg	10	1/6/2023 11:28:27 PM
Motor Oil Range Organics (MRO)	3700	440		mg/Kg	10	1/6/2023 11:28:27 PM
Surr: DNOP	0	21-129	S	%Rec	10	1/6/2023 11:28:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	1/6/2023 3:00:49 PM
Surr: BFB	89.2	37.7-212		%Rec	5	1/6/2023 3:00:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.12		mg/Kg	5	1/6/2023 3:00:49 PM
Toluene	ND	0.25		mg/Kg	5	1/6/2023 3:00:49 PM
Ethylbenzene	ND	0.25		mg/Kg	5	1/6/2023 3:00:49 PM
Xylenes, Total	ND	0.49		mg/Kg	5	1/6/2023 3:00:49 PM
Surr: 4-Bromofluorobenzene	82.0	70-130		%Rec	5	1/6/2023 3:00:49 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	63000	3000		mg/Kg	1000	1/9/2023 9:21:02 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-01 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/28/2022 10:05:00 AM

Lab ID: 2301068-002

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/7/2023 12:00:06 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/7/2023 12:00:06 AM
Surr: DNOP	108	21-129		%Rec	1	1/7/2023 12:00:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 3:24:30 PM
Surr: BFB	91.3	37.7-212		%Rec	1	1/6/2023 3:24:30 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/6/2023 3:24:30 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 3:24:30 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 3:24:30 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/6/2023 3:24:30 PM
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	1/6/2023 3:24:30 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	69000	3000		mg/Kg	1000	1/9/2023 9:33:24 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-01 8'

Project: East Pecos Pipeline Spill

Collection Date: 12/28/2022 10:10:00 AM

Lab ID: 2301068-003

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/7/2023 12:10:43 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/7/2023 12:10:43 AM
Surr: DNOP	110	21-129		%Rec	1	1/7/2023 12:10:43 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 1:46:09 PM
Surr: BFB	101	37.7-212		%Rec	1	1/11/2023 1:46:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/11/2023 1:46:09 PM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 1:46:09 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 1:46:09 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/11/2023 1:46:09 PM
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	1/11/2023 1:46:09 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	17000	1500		mg/Kg	500	1/9/2023 9:45:43 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-01 16'

Project: East Pecos Pipeline Spill

Collection Date: 12/28/2022 10:15:00 AM

Lab ID: 2301068-004

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/7/2023 12:21:21 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/7/2023 12:21:21 AM
Surr: DNOP	109	21-129		%Rec	1	1/7/2023 12:21:21 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 4:11:41 PM
Surr: BFB	89.4	37.7-212		%Rec	1	1/6/2023 4:11:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/6/2023 4:11:41 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 4:11:41 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 4:11:41 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/6/2023 4:11:41 PM
Surr: 4-Bromofluorobenzene	83.7	70-130		%Rec	1	1/6/2023 4:11:41 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	17000	1500		mg/Kg	500	1/9/2023 9:58:04 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-02 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/28/2022 10:30:00 AM

Lab ID: 2301068-005

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	1300	150		mg/Kg	10	1/7/2023 12:32:00 AM
Motor Oil Range Organics (MRO)	880	500		mg/Kg	10	1/7/2023 12:32:00 AM
Surr: DNOP	0	21-129	S	%Rec	10	1/7/2023 12:32:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 4:35:15 PM
Surr: BFB	97.3	37.7-212		%Rec	1	1/6/2023 4:35:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/6/2023 4:35:15 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 4:35:15 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 4:35:15 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/6/2023 4:35:15 PM
Surr: 4-Bromofluorobenzene	82.1	70-130		%Rec	1	1/6/2023 4:35:15 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	71000	3000		mg/Kg	1000	1/10/2023 1:12:37 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-02 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/28/2022 10:35:00 AM

Lab ID: 2301068-006

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/7/2023 12:53:09 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/7/2023 12:53:09 AM
Surr: DNOP	112	21-129		%Rec	1	1/7/2023 12:53:09 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 4:58:47 PM
Surr: BFB	93.3	37.7-212		%Rec	1	1/6/2023 4:58:47 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/6/2023 4:58:47 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 4:58:47 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 4:58:47 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/6/2023 4:58:47 PM
Surr: 4-Bromofluorobenzene	86.1	70-130		%Rec	1	1/6/2023 4:58:47 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	13000	600		mg/Kg	200	1/9/2023 10:47:27 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-02 8'

Project: East Pecos Pipeline Spill

Collection Date: 12/28/2022 10:40:00 AM

Lab ID: 2301068-007

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/7/2023 1:03:50 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/7/2023 1:03:50 AM
Surr: DNOP	113	21-129		%Rec	1	1/7/2023 1:03:50 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 5:45:55 PM
Surr: BFB	89.4	37.7-212		%Rec	1	1/6/2023 5:45:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/6/2023 5:45:55 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 5:45:55 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 5:45:55 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/6/2023 5:45:55 PM
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	1/6/2023 5:45:55 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	17000	600		mg/Kg	200	1/9/2023 10:59:48 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-02 16'

Project: East Pecos Pipeline Spill

Collection Date: 12/28/2022 10:45:00 AM

Lab ID: 2301068-008

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/7/2023 1:14:38 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/7/2023 1:14:38 AM
Surr: DNOP	110	21-129		%Rec	1	1/7/2023 1:14:38 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 2:09:48 PM
Surr: BFB	102	37.7-212		%Rec	1	1/11/2023 2:09:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/11/2023 2:09:48 PM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 2:09:48 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 2:09:48 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/11/2023 2:09:48 PM
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	1/11/2023 2:09:48 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	13000	600		mg/Kg	200	1/9/2023 11:12:09 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-03 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/28/2022 11:00:00 AM

Lab ID: 2301068-009

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	3100	140		mg/Kg	10	1/7/2023 1:25:23 AM
Motor Oil Range Organics (MRO)	1700	470		mg/Kg	10	1/7/2023 1:25:23 AM
Surr: DNOP	0	21-129	S	%Rec	10	1/7/2023 1:25:23 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	1/6/2023 6:56:21 PM
Surr: BFB	86.8	37.7-212		%Rec	5	1/6/2023 6:56:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.12		mg/Kg	5	1/6/2023 6:56:21 PM
Toluene	ND	0.24		mg/Kg	5	1/6/2023 6:56:21 PM
Ethylbenzene	ND	0.24		mg/Kg	5	1/6/2023 6:56:21 PM
Xylenes, Total	ND	0.48		mg/Kg	5	1/6/2023 6:56:21 PM
Surr: 4-Bromofluorobenzene	81.3	70-130		%Rec	5	1/6/2023 6:56:21 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	48000	1500		mg/Kg	500	1/9/2023 11:24:29 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-03 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/28/2022 11:05:00 AM

Lab ID: 2301068-010

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	86	9.6		mg/Kg	1	1/10/2023 5:26:26 PM
Motor Oil Range Organics (MRO)	54	48		mg/Kg	1	1/10/2023 5:26:26 PM
Surr: DNOP	123	21-129		%Rec	1	1/10/2023 5:26:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 7:19:52 PM
Surr: BFB	94.8	37.7-212		%Rec	1	1/6/2023 7:19:52 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/6/2023 7:19:52 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 7:19:52 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 7:19:52 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/6/2023 7:19:52 PM
Surr: 4-Bromofluorobenzene	85.9	70-130		%Rec	1	1/6/2023 7:19:52 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	15000	600		mg/Kg	200	1/9/2023 11:36:49 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-03 8'

Project: East Pecos Pipeline Spill

Collection Date: 12/28/2022 11:10:00 AM

Lab ID: 2301068-011

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/7/2023 1:46:42 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/7/2023 1:46:42 AM
Surr: DNOP	118	21-129		%Rec	1	1/7/2023 1:46:42 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/6/2023 7:43:28 PM
Surr: BFB	89.7	37.7-212		%Rec	1	1/6/2023 7:43:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/6/2023 7:43:28 PM
Toluene	ND	0.049		mg/Kg	1	1/6/2023 7:43:28 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/6/2023 7:43:28 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/6/2023 7:43:28 PM
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	1	1/6/2023 7:43:28 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	9500	600		mg/Kg	200	1/9/2023 11:49:10 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-03 16'

Project: East Pecos Pipeline Spill

Collection Date: 12/28/2022 11:15:00 AM

Lab ID: 2301068-012

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	1/7/2023 1:57:18 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/7/2023 1:57:18 AM
Surr: DNOP	107	21-129		%Rec	1	1/7/2023 1:57:18 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/6/2023 8:06:56 PM
Surr: BFB	88.1	37.7-212		%Rec	1	1/6/2023 8:06:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/6/2023 8:06:56 PM
Toluene	ND	0.048		mg/Kg	1	1/6/2023 8:06:56 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/6/2023 8:06:56 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/6/2023 8:06:56 PM
Surr: 4-Bromofluorobenzene	83.2	70-130		%Rec	1	1/6/2023 8:06:56 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	9800	590		mg/Kg	200	1/10/2023 12:01:30 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-04 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/30/2022 9:00:00 AM

Lab ID: 2301068-013

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	31000	1900		mg/Kg	200	1/9/2023 12:24:49 PM
Motor Oil Range Organics (MRO)	17000	9400		mg/Kg	200	1/9/2023 12:24:49 PM
Surr: DNOP	0	21-129	S	%Rec	200	1/9/2023 12:24:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	1/6/2023 8:30:24 PM
Surr: BFB	94.8	37.7-212		%Rec	5	1/6/2023 8:30:24 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.12		mg/Kg	5	1/6/2023 8:30:24 PM
Toluene	ND	0.25		mg/Kg	5	1/6/2023 8:30:24 PM
Ethylbenzene	ND	0.25		mg/Kg	5	1/6/2023 8:30:24 PM
Xylenes, Total	ND	0.50		mg/Kg	5	1/6/2023 8:30:24 PM
Surr: 4-Bromofluorobenzene	81.9	70-130		%Rec	5	1/6/2023 8:30:24 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	48000	1500		mg/Kg	500	1/10/2023 12:13:51 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-04 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/30/2022 9:05:00 AM

Lab ID: 2301068-014

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	1/7/2023 2:38:58 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/7/2023 2:38:58 AM
Surr: DNOP	113	21-129		%Rec	1	1/7/2023 2:38:58 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2023 2:33:26 PM
Surr: BFB	102	37.7-212		%Rec	1	1/11/2023 2:33:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/11/2023 2:33:26 PM
Toluene	ND	0.050		mg/Kg	1	1/11/2023 2:33:26 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2023 2:33:26 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2023 2:33:26 PM
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	1/11/2023 2:33:26 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	13000	600		mg/Kg	200	1/10/2023 12:26:11 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-04 8'

Project: East Pecos Pipeline Spill

Collection Date: 12/30/2022 9:10:00 AM

Lab ID: 2301068-015

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	1/7/2023 2:49:27 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/7/2023 2:49:27 AM
Surr: DNOP	113	21-129		%Rec	1	1/7/2023 2:49:27 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/11/2023 2:57:06 PM
Surr: BFB	102	37.7-212		%Rec	1	1/11/2023 2:57:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/11/2023 2:57:06 PM
Toluene	ND	0.048		mg/Kg	1	1/11/2023 2:57:06 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/11/2023 2:57:06 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/11/2023 2:57:06 PM
Surr: 4-Bromofluorobenzene	98.0	70-130		%Rec	1	1/11/2023 2:57:06 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	15000	600		mg/Kg	200	1/10/2023 12:38:31 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-04 16'

Project: East Pecos Pipeline Spill

Collection Date: 12/30/2022 9:20:00 AM

Lab ID: 2301068-016

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	5900	150		mg/Kg	10	1/7/2023 2:59:57 AM
Motor Oil Range Organics (MRO)	1600	490		mg/Kg	10	1/7/2023 2:59:57 AM
Surr: DNOP	0	21-129	S	%Rec	10	1/7/2023 2:59:57 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	1100	24		mg/Kg	5	1/6/2023 9:40:49 PM
Surr: BFB	786	37.7-212	S	%Rec	5	1/6/2023 9:40:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	0.13	0.12		mg/Kg	5	1/6/2023 9:40:49 PM
Toluene	10	0.24		mg/Kg	5	1/6/2023 9:40:49 PM
Ethylbenzene	4.1	0.24		mg/Kg	5	1/6/2023 9:40:49 PM
Xylenes, Total	65	0.49		mg/Kg	5	1/6/2023 9:40:49 PM
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	5	1/6/2023 9:40:49 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	9000	300		mg/Kg	100	1/10/2023 1:15:33 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-05 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/30/2022 9:30:00 AM

Lab ID: 2301068-017

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	490	9.9		mg/Kg	1	1/9/2023 11:08:27 AM
Motor Oil Range Organics (MRO)	380	50		mg/Kg	1	1/9/2023 11:08:27 AM
Surr: DNOP	129	21-129		%Rec	1	1/9/2023 11:08:27 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/7/2023 12:24:26 AM
Surr: BFB	82.9	37.7-212		%Rec	1	1/7/2023 12:24:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	1/9/2023 9:51:00 PM
Toluene	ND	0.047		mg/Kg	1	1/9/2023 9:51:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/9/2023 9:51:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/9/2023 9:51:00 PM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/9/2023 9:51:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	17000	600		mg/Kg	200	1/10/2023 1:27:54 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-05 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/30/2022 9:35:00 AM

Lab ID: 2301068-018

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/9/2023 1:28:36 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/9/2023 1:28:36 PM
Surr: DNOP	113	21-129		%Rec	1	1/9/2023 1:28:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/7/2023 1:34:22 AM
Surr: BFB	89.6	37.7-212		%Rec	1	1/7/2023 1:34:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	1/9/2023 10:10:00 PM
Toluene	ND	0.046		mg/Kg	1	1/9/2023 10:10:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	1/9/2023 10:10:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	1/9/2023 10:10:00 PM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/9/2023 10:10:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	950	59		mg/Kg	20	1/9/2023 7:29:56 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-05 8'

Project: East Pecos Pipeline Spill

Collection Date: 12/30/2022 9:40:00 AM

Lab ID: 2301068-019

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/9/2023 1:39:09 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/9/2023 1:39:09 PM
Surr: DNOP	110	21-129		%Rec	1	1/9/2023 1:39:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/7/2023 2:44:03 AM
Surr: BFB	87.5	37.7-212		%Rec	1	1/7/2023 2:44:03 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/9/2023 11:09:00 PM
Toluene	ND	0.047		mg/Kg	1	1/9/2023 11:09:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/9/2023 11:09:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/9/2023 11:09:00 PM
Surr: 4-Bromofluorobenzene	125	70-130		%Rec	1	1/9/2023 11:09:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	17000	590		mg/Kg	200	1/10/2023 1:24:58 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-06 0'

Project: East Pecos Pipeline Spill

Collection Date: 12/30/2022 10:00:00 AM

Lab ID: 2301068-020

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	16000	200		mg/Kg	20	1/9/2023 1:49:43 PM
Motor Oil Range Organics (MRO)	10000	1000		mg/Kg	20	1/9/2023 1:49:43 PM
Surr: DNOP	0	21-129	S	%Rec	20	1/9/2023 1:49:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/7/2023 3:07:17 AM
Surr: BFB	87.1	37.7-212		%Rec	1	1/7/2023 3:07:17 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	0.22	0.023		mg/Kg	1	1/9/2023 11:29:00 PM
Toluene	0.51	0.047		mg/Kg	1	1/9/2023 11:29:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/9/2023 11:29:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/9/2023 11:29:00 PM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/9/2023 11:29:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	56000	3000		mg/Kg	1000	1/10/2023 1:37:19 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-06 4'

Project: East Pecos Pipeline Spill

Collection Date: 12/30/2022 10:05:00 AM

Lab ID: 2301068-021

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	25	9.4		mg/Kg	1	1/9/2023 2:10:51 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/9/2023 2:10:51 PM
Surr: DNOP	117	21-129		%Rec	1	1/9/2023 2:10:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/7/2023 3:30:27 AM
Surr: BFB	89.9	37.7-212		%Rec	1	1/7/2023 3:30:27 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/9/2023 11:49:00 PM
Toluene	ND	0.047		mg/Kg	1	1/9/2023 11:49:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/9/2023 11:49:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/9/2023 11:49:00 PM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/9/2023 11:49:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	19000	1500		mg/Kg	500	1/10/2023 1:49:39 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-06 8'

Project: East Pecos Pipeline Spill

Collection Date: 12/30/2022 10:10:00 AM

Lab ID: 2301068-022

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	1/9/2023 2:32:02 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/9/2023 2:32:02 PM
Surr: DNOP	127	21-129		%Rec	1	1/9/2023 2:32:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/7/2023 3:53:39 AM
Surr: BFB	87.1	37.7-212		%Rec	1	1/7/2023 3:53:39 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 12:08:00 AM
Toluene	ND	0.049		mg/Kg	1	1/10/2023 12:08:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2023 12:08:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/10/2023 12:08:00 AM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/10/2023 12:08:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	9400	600		mg/Kg	200	1/10/2023 2:02:00 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-06 16'

Project: East Pecos Pipeline Spill

Collection Date: 12/30/2022 10:20:00 AM

Lab ID: 2301068-023

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/9/2023 2:42:41 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/9/2023 2:42:41 PM
Surr: DNOP	106	21-129		%Rec	1	1/9/2023 2:42:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/7/2023 4:16:48 AM
Surr: BFB	88.3	37.7-212		%Rec	1	1/7/2023 4:16:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 12:28:00 AM
Toluene	ND	0.048		mg/Kg	1	1/10/2023 12:28:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2023 12:28:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2023 12:28:00 AM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/10/2023 12:28:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	6800	300		mg/Kg	100	1/10/2023 2:14:20 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-08 0'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 7:50:00 AM

Lab ID: 2301068-024

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	1800	95		mg/Kg	10	1/9/2023 2:53:20 PM
Motor Oil Range Organics (MRO)	840	470		mg/Kg	10	1/9/2023 2:53:20 PM
Surr: DNOP	0	21-129	S	%Rec	10	1/9/2023 2:53:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/7/2023 4:39:59 AM
Surr: BFB	115	37.7-212		%Rec	1	1/7/2023 4:39:59 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 12:48:00 AM
Toluene	ND	0.049		mg/Kg	1	1/10/2023 12:48:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2023 12:48:00 AM
Xylenes, Total	0.17	0.097		mg/Kg	1	1/10/2023 12:48:00 AM
Surr: 4-Bromofluorobenzene	132	70-130	S	%Rec	1	1/10/2023 12:48:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	13000	610		mg/Kg	200	1/10/2023 2:26:41 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-08 2'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 7:55:00 AM

Lab ID: 2301068-025

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/9/2023 3:03:59 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/9/2023 3:03:59 PM
Surr: DNOP	119	21-129		%Rec	1	1/9/2023 3:03:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/7/2023 5:03:07 AM
Surr: BFB	90.1	37.7-212		%Rec	1	1/7/2023 5:03:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 1:07:00 AM
Toluene	ND	0.047		mg/Kg	1	1/10/2023 1:07:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/10/2023 1:07:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	1/10/2023 1:07:00 AM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/10/2023 1:07:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	12000	600		mg/Kg	200	1/10/2023 2:39:02 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-08 4'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 8:00:00 AM

Lab ID: 2301068-026

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	1/9/2023 3:14:38 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/9/2023 3:14:38 PM
Surr: DNOP	112	21-129		%Rec	1	1/9/2023 3:14:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/7/2023 5:26:17 AM
Surr: BFB	86.0	37.7-212		%Rec	1	1/7/2023 5:26:17 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 1:27:00 AM
Toluene	ND	0.049		mg/Kg	1	1/10/2023 1:27:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2023 1:27:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2023 1:27:00 AM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/10/2023 1:27:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	9700	600		mg/Kg	200	1/10/2023 2:51:23 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-10 0'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 8:25:00 AM

Lab ID: 2301068-027

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	17000	170		mg/Kg	20	1/9/2023 3:25:17 PM
Motor Oil Range Organics (MRO)	8600	850		mg/Kg	20	1/9/2023 3:25:17 PM
Surr: DNOP	0	21-129	S	%Rec	20	1/9/2023 3:25:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	37	4.8		mg/Kg	1	1/7/2023 6:12:30 AM
Surr: BFB	461	37.7-212	S	%Rec	1	1/7/2023 6:12:30 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 2:06:00 AM
Toluene	ND	0.048		mg/Kg	1	1/10/2023 2:06:00 AM
Ethylbenzene	0.084	0.048		mg/Kg	1	1/10/2023 2:06:00 AM
Xylenes, Total	0.45	0.096		mg/Kg	1	1/10/2023 2:06:00 AM
Surr: 4-Bromofluorobenzene	152	70-130	S	%Rec	1	1/10/2023 2:06:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	6400	300		mg/Kg	100	1/10/2023 3:03:43 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-10 2'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 8:30:00 AM

Lab ID: 2301068-028

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/9/2023 4:14:50 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/9/2023 4:14:50 PM
Surr: DNOP	116	21-129		%Rec	1	1/9/2023 4:14:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/7/2023 6:35:38 AM
Surr: BFB	85.9	37.7-212		%Rec	1	1/7/2023 6:35:38 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	1/10/2023 2:26:00 AM
Toluene	ND	0.046		mg/Kg	1	1/10/2023 2:26:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	1/10/2023 2:26:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	1/10/2023 2:26:00 AM
Surr: 4-Bromofluorobenzene	127	70-130		%Rec	1	1/10/2023 2:26:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	13000	600		mg/Kg	200	1/10/2023 3:40:46 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-10 4'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 8:35:00 AM

Lab ID: 2301068-029

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/9/2023 4:25:27 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/9/2023 4:25:27 PM
Surr: DNOP	120	21-129		%Rec	1	1/9/2023 4:25:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/7/2023 6:58:48 AM
Surr: BFB	88.0	37.7-212		%Rec	1	1/7/2023 6:58:48 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 2:45:00 AM
Toluene	ND	0.048		mg/Kg	1	1/10/2023 2:45:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2023 2:45:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2023 2:45:00 AM
Surr: 4-Bromofluorobenzene	125	70-130		%Rec	1	1/10/2023 2:45:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	11000	600		mg/Kg	200	1/10/2023 3:53:07 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-15 0'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 10:05:00 AM

Lab ID: 2301068-030

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	810	98		mg/Kg	10	1/9/2023 4:36:05 PM
Motor Oil Range Organics (MRO)	650	490		mg/Kg	10	1/9/2023 4:36:05 PM
Surr: DNOP	0	21-129	S	%Rec	10	1/9/2023 4:36:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/7/2023 7:21:56 AM
Surr: BFB	91.7	37.7-212		%Rec	1	1/7/2023 7:21:56 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/10/2023 3:05:00 AM
Toluene	ND	0.050		mg/Kg	1	1/10/2023 3:05:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/10/2023 3:05:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/10/2023 3:05:00 AM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/10/2023 3:05:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	5900	300		mg/Kg	100	1/10/2023 4:05:28 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-15 2'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 10:10:00 AM

Lab ID: 2301068-031

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/9/2023 4:46:45 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/9/2023 4:46:45 PM
Surr: DNOP	118	21-129		%Rec	1	1/9/2023 4:46:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/7/2023 7:45:00 AM
Surr: BFB	87.0	37.7-212		%Rec	1	1/7/2023 7:45:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	1/10/2023 3:24:00 AM
Toluene	ND	0.046		mg/Kg	1	1/10/2023 3:24:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	1/10/2023 3:24:00 AM
Xylenes, Total	ND	0.092		mg/Kg	1	1/10/2023 3:24:00 AM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	1/10/2023 3:24:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	18000	600		mg/Kg	200	1/10/2023 4:17:49 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301068

Date Reported: 1/16/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-15 4'

Project: East Pecos Pipeline Spill

Collection Date: 1/1/2023 10:15:00 AM

Lab ID: 2301068-032

Matrix: SOIL

Received Date: 1/4/2023 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/9/2023 4:57:25 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/9/2023 4:57:25 PM
Surr: DNOP	115	21-129		%Rec	1	1/9/2023 4:57:25 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/7/2023 8:08:07 AM
Surr: BFB	85.9	37.7-212		%Rec	1	1/7/2023 8:08:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 3:44:00 AM
Toluene	ND	0.049		mg/Kg	1	1/10/2023 3:44:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2023 3:44:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2023 3:44:00 AM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/10/2023 3:44:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	17000	600		mg/Kg	200	1/10/2023 4:30:10 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301068

16-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline Spill

Sample ID: MB-72496	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72496	RunNo: 93780								
Prep Date: 1/6/2023	Analysis Date: 1/6/2023	SeqNo: 3385530	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72496	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72496	RunNo: 93780								
Prep Date: 1/6/2023	Analysis Date: 1/6/2023	SeqNo: 3385531	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.8	90	110			

Sample ID: MB-72522	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72522	RunNo: 93832								
Prep Date: 1/9/2023	Analysis Date: 1/9/2023	SeqNo: 3387237	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72522	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72522	RunNo: 93832								
Prep Date: 1/9/2023	Analysis Date: 1/9/2023	SeqNo: 3387238	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

Sample ID: MB-72511	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72511	RunNo: 93837								
Prep Date: 1/9/2023	Analysis Date: 1/9/2023	SeqNo: 3387327	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72511	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72511	RunNo: 93837								
Prep Date: 1/9/2023	Analysis Date: 1/9/2023	SeqNo: 3387328	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.3	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301068

16-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline Spill

Sample ID: LCS-72476	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 72476			RunNo: 93809						
Prep Date: 1/5/2023	Analysis Date: 1/6/2023			SeqNo: 3386536			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	15	50.00	0	93.7	64.4	127			
Surr: DNOP	5.9		5.000		118	21	129			

Sample ID: MB-72476	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 72476			RunNo: 93809						
Prep Date: 1/5/2023	Analysis Date: 1/6/2023			SeqNo: 3386539			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.3	21	129			

Sample ID: 2301068-017AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH22-05 0'	Batch ID: 72492			RunNo: 93818						
Prep Date: 1/6/2023	Analysis Date: 1/9/2023			SeqNo: 3386728			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	530	9.9	49.60	493.7	77.1	36.1	154			
Surr: DNOP	5.6		4.960		114	21	129			

Sample ID: 2301068-017AMSD	SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH22-05 0'	Batch ID: 72492			RunNo: 93818						
Prep Date: 1/6/2023	Analysis Date: 1/9/2023			SeqNo: 3386729			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	490	9.0	44.76	493.7	-11.4	36.1	154	8.50	33.9	S
Surr: DNOP	4.7		4.476		106	21	129	0	0	

Sample ID: LCS-72492	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 72492			RunNo: 93818						
Prep Date: 1/6/2023	Analysis Date: 1/9/2023			SeqNo: 3386797			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.1	64.4	127			
Surr: DNOP	5.6		5.000		111	21	129			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301068

16-Jan-23

Client: Devon Energy

Project: East Pecos Pipeline Spill

Sample ID: MB-72492	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72492	RunNo: 93818								
Prep Date: 1/6/2023	Analysis Date: 1/9/2023	SeqNo: 3386800 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	21	129			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301068

16-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline Spill

Sample ID: ics-72468	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 72468			RunNo: 93793						
Prep Date: 1/5/2023	Analysis Date: 1/6/2023			SeqNo: 3386251		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.5	72.3	137			
Surr: BFB	1800		1000		183	37.7	212			

Sample ID: ics-72481	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 72481			RunNo: 93793						
Prep Date: 1/5/2023	Analysis Date: 1/6/2023			SeqNo: 3386252		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.0	72.3	137			
Surr: BFB	1800		1000		180	37.7	212			

Sample ID: mb-72468	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 72468			RunNo: 93793						
Prep Date: 1/5/2023	Analysis Date: 1/6/2023			SeqNo: 3386253		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.3	37.7	212			

Sample ID: mb-72481	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 72481			RunNo: 93793						
Prep Date: 1/5/2023	Analysis Date: 1/7/2023			SeqNo: 3386254		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.1	37.7	212			

Sample ID: 2301068-017ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH22-05 0'	Batch ID: 72481			RunNo: 93793						
Prep Date: 1/5/2023	Analysis Date: 1/7/2023			SeqNo: 3386271		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.6	23.13	0	99.8	70	130			
Surr: BFB	1800		925.1		190	37.7	212			

Sample ID: 2301068-017amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH22-05 0'	Batch ID: 72481			RunNo: 93793						
Prep Date: 1/5/2023	Analysis Date: 1/7/2023			SeqNo: 3386272		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301068

16-Jan-23

Client: Devon Energy

Project: East Pecos Pipeline Spill

Sample ID: 2301068-017amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH22-05 0'	Batch ID: 72481				RunNo: 93793					
Prep Date: 1/5/2023	Analysis Date: 1/7/2023				SeqNo: 3386272		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.7	23.43	0	105	70	130	6.23	20	
Surr: BFB	1800		937.2		194	37.7	212	0	0	

- Qualifiers:
- *

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

- B

Analyte detected in the associated Method Blank
- E

Above Quantitation Range/Estimated Value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301068

16-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline Spill

Sample ID: mb-72468	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72468		RunNo: 93793							
Prep Date: 1/5/2023	Analysis Date: 1/6/2023		SeqNo: 3386355		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.86		1.000		85.7	70	130			

Sample ID: lcs-72481	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72481		RunNo: 93823							
Prep Date: 1/5/2023	Analysis Date: 1/9/2023		SeqNo: 3386906		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	1.1	0.050	1.000	0	105	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		127	70	130			

Sample ID: mb-72481	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72481		RunNo: 93823							
Prep Date: 1/5/2023	Analysis Date: 1/9/2023		SeqNo: 3386907		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		124	70	130			

Sample ID: 2301068-018ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-05 4'	Batch ID: 72481		RunNo: 93823							
Prep Date: 1/5/2023	Analysis Date: 1/9/2023		SeqNo: 3386910		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.023	0.9363	0	102	68.8	120			
Toluene	0.98	0.047	0.9363	0	105	73.6	124			
Ethylbenzene	0.99	0.047	0.9363	0	105	72.7	129			
Xylenes, Total	3.0	0.094	2.809	0	106	75.7	126			
Surr: 4-Bromofluorobenzene	1.2		0.9363		123	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301068

16-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline Spill

Sample ID: 2301068-018amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-05 4'	Batch ID: 72481	RunNo: 93823								
Prep Date: 1/5/2023	Analysis Date: 1/9/2023	SeqNo: 3386911	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.023	0.9183	0	105	68.8	120	0.880	20	
Toluene	0.99	0.046	0.9183	0	108	73.6	124	1.27	20	
Ethylbenzene	1.0	0.046	0.9183	0	110	72.7	129	2.03	20	
Xylenes, Total	3.0	0.092	2.755	0	110	75.7	126	1.64	20	
Surr: 4-Bromofluorobenzene	1.2		0.9183		127	70	130	0	0	

Sample ID: LCS-72468	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 72468	RunNo: 93875								
Prep Date: 1/5/2023	Analysis Date: 1/11/2023	SeqNo: 3388801	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.3	80	120			
Toluene	0.93	0.050	1.000	0	93.0	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.7	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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

Sample Log-In Check List

Client Name: Devon Energy

Work Order Number: 2301068

RcptNo: 1

Received By: Tracy Casarrubias 1/4/2023 7:15:00 AM

Completed By: Sean Livingston 1/4/2023 8:22:14 AM

Reviewed By: *jm 1/4/23*

Sm Lopez

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐

4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐

5. Sample(s) in proper container(s)? Yes ☒ No ☐

6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐

7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐

8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐

9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒

10. Were any sample containers received broken? Yes ☐ No ☒

11. Does paperwork match bottle labels? Yes ☒ No ☐

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐

13. Is it clear what analyses were requested? Yes ☒ No ☐

14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *SM 1/4/23*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good				

Chain-of-Custody Record

Client: Dewon / WPX
J. M. Bailey
 Mailing Address:

Phone #:
 email or Fax #:
 QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
 Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Date	Time	Matrix	Sample Name
12/28	10:00	So:1	BH22-01 0'
	10:05		BH22-01 4'
	10:10		BH22-01 8'
	10:15		BH22-01 16'
	10:30		BH22-02 0'
	10:35		BH22-02 4'
	10:40		BH22-02 8'
	10:45		BH22-02 16'
	11:00		BH22-03 0'
	11:05		BH22-03 4'
	11:10		BH22-03 8'
	11:15		BH22-03 16'

Date: 12/28 Time: 1400
 Relinquished by: [Signature]
 Relinquished by: [Signature]

Turn-Around Time:

☒ Standard ☒ Rush 5 Day

 Project Name:
East Pecos Pipeline Sp. 11

 Project #:
22E-03892

 Project Manager:
Monica Peppin

 Sampler: MJP
 On Ice: ☒ Yes ☐ No
 # of Coolers: 1
Cooler Temp (including CF): 1.8 - 0.1.8 (°C)

Container Type and #	Preservative Type	HEAL No.
402	ice	2301068



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

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

Remarks:

CC: M. Peppin

Received by: [Signature] Date: 12/28 Time: 930
 Received by: [Signature] Date: 1/4/23 Time: 7:15



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

January 17, 2023

Monica Peppin

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (505) 350-1336

FAX:

RE: East Pecos Pipeline

OrderNo.: 2301135

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 50 sample(s) on 1/5/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-73 0'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 10:30:00 AM

Lab ID: 2301135-001

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/9/2023 5:08:14 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/9/2023 5:08:14 PM
Surr: DNOP	114	21-129		%Rec	1	1/9/2023 5:08:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/7/2023 8:31:13 AM
Surr: BFB	86.7	37.7-212		%Rec	1	1/7/2023 8:31:13 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 4:03:00 AM
Toluene	ND	0.049		mg/Kg	1	1/10/2023 4:03:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2023 4:03:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2023 4:03:00 AM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/10/2023 4:03:00 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	70	60		mg/Kg	20	1/9/2023 6:51:02 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-73 2'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 10:35:00 AM

Lab ID: 2301135-002

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/9/2023 5:19:02 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/9/2023 5:19:02 PM
Surr: DNOP	110	21-129		%Rec	1	1/9/2023 5:19:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/7/2023 8:54:22 AM
Surr: BFB	85.5	37.7-212		%Rec	1	1/7/2023 8:54:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 4:23:00 AM
Toluene	ND	0.048		mg/Kg	1	1/10/2023 4:23:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2023 4:23:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	1/10/2023 4:23:00 AM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/10/2023 4:23:00 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	190	61		mg/Kg	20	1/9/2023 7:03:27 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-73 4'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 10:40:00 AM

Lab ID: 2301135-003

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/9/2023 5:29:48 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/9/2023 5:29:48 PM
Surr: DNOP	113	21-129		%Rec	1	1/9/2023 5:29:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/7/2023 9:17:28 AM
Surr: BFB	85.2	37.7-212		%Rec	1	1/7/2023 9:17:28 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 4:43:00 AM
Toluene	ND	0.048		mg/Kg	1	1/10/2023 4:43:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2023 4:43:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	1/10/2023 4:43:00 AM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/10/2023 4:43:00 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	560	60		mg/Kg	20	1/9/2023 7:15:52 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-74 0'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 10:45:00 AM

Lab ID: 2301135-004

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/9/2023 5:40:33 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/9/2023 5:40:33 PM
Surr: DNOP	118	21-129		%Rec	1	1/9/2023 5:40:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/7/2023 9:40:37 AM
Surr: BFB	85.0	37.7-212		%Rec	1	1/7/2023 9:40:37 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	1/10/2023 5:02:00 AM
Toluene	ND	0.046		mg/Kg	1	1/10/2023 5:02:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	1/10/2023 5:02:00 AM
Xylenes, Total	ND	0.093		mg/Kg	1	1/10/2023 5:02:00 AM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/10/2023 5:02:00 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	1/9/2023 7:28:16 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-74 2'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 10:50:00 AM

Lab ID: 2301135-005

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/9/2023 6:54:58 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/9/2023 6:54:58 PM
Surr: DNOP	119	21-129		%Rec	1	1/9/2023 6:54:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2023 3:53:00 PM
Surr: BFB	101	37.7-212		%Rec	1	1/10/2023 3:53:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/10/2023 3:53:00 PM
Toluene	ND	0.049		mg/Kg	1	1/10/2023 3:53:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2023 3:53:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/10/2023 3:53:00 PM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/10/2023 3:53:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	1/9/2023 7:40:40 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-74 4'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 10:55:00 AM

Lab ID: 2301135-006

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/9/2023 7:26:48 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/9/2023 7:26:48 PM
Surr: DNOP	109	21-129		%Rec	1	1/9/2023 7:26:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2023 4:52:00 PM
Surr: BFB	103	37.7-212		%Rec	1	1/10/2023 4:52:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 4:52:00 PM
Toluene	ND	0.049		mg/Kg	1	1/10/2023 4:52:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2023 4:52:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2023 4:52:00 PM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/10/2023 4:52:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	1/9/2023 7:53:05 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-75 0'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 11:00:00 AM

Lab ID: 2301135-007

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/9/2023 7:37:22 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/9/2023 7:37:22 PM
Surr: DNOP	112	21-129		%Rec	1	1/9/2023 7:37:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2023 5:51:00 PM
Surr: BFB	110	37.7-212		%Rec	1	1/10/2023 5:51:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 5:51:00 PM
Toluene	ND	0.049		mg/Kg	1	1/10/2023 5:51:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2023 5:51:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2023 5:51:00 PM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/10/2023 5:51:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	680	60		mg/Kg	20	1/9/2023 8:30:19 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-75 2'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 11:05:00 AM

Lab ID: 2301135-008

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/9/2023 7:47:55 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/9/2023 7:47:55 PM
Surr: DNOP	111	21-129		%Rec	1	1/9/2023 7:47:55 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2023 6:11:00 PM
Surr: BFB	112	37.7-212		%Rec	1	1/10/2023 6:11:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/10/2023 6:11:00 PM
Toluene	ND	0.049		mg/Kg	1	1/10/2023 6:11:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2023 6:11:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/10/2023 6:11:00 PM
Surr: 4-Bromofluorobenzene	128	70-130		%Rec	1	1/10/2023 6:11:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	300	61		mg/Kg	20	1/9/2023 8:42:43 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-75 4'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 11:10:00 AM

Lab ID: 2301135-009

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/9/2023 7:58:27 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/9/2023 7:58:27 PM
Surr: DNOP	111	21-129		%Rec	1	1/9/2023 7:58:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/10/2023 6:31:00 PM
Surr: BFB	104	37.7-212		%Rec	1	1/10/2023 6:31:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 6:31:00 PM
Toluene	ND	0.048		mg/Kg	1	1/10/2023 6:31:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2023 6:31:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2023 6:31:00 PM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/10/2023 6:31:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	85	60		mg/Kg	20	1/9/2023 8:55:08 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-76 0'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 11:15:00 AM

Lab ID: 2301135-010

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/9/2023 8:08:59 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/9/2023 8:08:59 PM
Surr: DNOP	117	21-129		%Rec	1	1/9/2023 8:08:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2023 6:50:00 PM
Surr: BFB	103	37.7-212		%Rec	1	1/10/2023 6:50:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/10/2023 6:50:00 PM
Toluene	ND	0.049		mg/Kg	1	1/10/2023 6:50:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2023 6:50:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/10/2023 6:50:00 PM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/10/2023 6:50:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	2600	150		mg/Kg	50	1/10/2023 4:42:31 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-76 2'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 11:20:00 AM

Lab ID: 2301135-011

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/9/2023 8:19:35 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/9/2023 8:19:35 PM
Surr: DNOP	112	21-129		%Rec	1	1/9/2023 8:19:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/10/2023 7:10:00 PM
Surr: BFB	102	37.7-212		%Rec	1	1/10/2023 7:10:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 7:10:00 PM
Toluene	ND	0.048		mg/Kg	1	1/10/2023 7:10:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2023 7:10:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2023 7:10:00 PM
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	1/10/2023 7:10:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	1200	60		mg/Kg	20	1/9/2023 9:19:57 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-76 4'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 11:25:00 AM

Lab ID: 2301135-012

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/9/2023 8:30:14 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/9/2023 8:30:14 PM
Surr: DNOP	115	21-129		%Rec	1	1/9/2023 8:30:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2023 7:30:00 PM
Surr: BFB	100	37.7-212		%Rec	1	1/10/2023 7:30:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/10/2023 7:30:00 PM
Toluene	ND	0.049		mg/Kg	1	1/10/2023 7:30:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2023 7:30:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/10/2023 7:30:00 PM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/10/2023 7:30:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	340	60		mg/Kg	20	1/9/2023 9:32:22 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-77 0'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 11:30:00 AM

Lab ID: 2301135-013

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	1/9/2023 8:51:28 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/9/2023 8:51:28 PM
Surr: DNOP	115	21-129		%Rec	1	1/9/2023 8:51:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2023 7:49:00 PM
Surr: BFB	106	37.7-212		%Rec	1	1/10/2023 7:49:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 7:49:00 PM
Toluene	ND	0.049		mg/Kg	1	1/10/2023 7:49:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2023 7:49:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2023 7:49:00 PM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/10/2023 7:49:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	1/9/2023 10:09:34 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-77 2'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 11:35:00 AM

Lab ID: 2301135-014

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/9/2023 9:02:08 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/9/2023 9:02:08 PM
Surr: DNOP	112	21-129		%Rec	1	1/9/2023 9:02:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/10/2023 8:29:00 PM
Surr: BFB	109	37.7-212		%Rec	1	1/10/2023 8:29:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 8:29:00 PM
Toluene	ND	0.048		mg/Kg	1	1/10/2023 8:29:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2023 8:29:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/10/2023 8:29:00 PM
Surr: 4-Bromofluorobenzene	126	70-130		%Rec	1	1/10/2023 8:29:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	1/9/2023 11:11:37 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-77 4'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 11:40:00 AM

Lab ID: 2301135-015

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/9/2023 9:12:45 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/9/2023 9:12:45 PM
Surr: DNOP	114	21-129		%Rec	1	1/9/2023 9:12:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/10/2023 8:48:00 PM
Surr: BFB	106	37.7-212		%Rec	1	1/10/2023 8:48:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 8:48:00 PM
Toluene	ND	0.048		mg/Kg	1	1/10/2023 8:48:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2023 8:48:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/10/2023 8:48:00 PM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/10/2023 8:48:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	1/9/2023 11:48:50 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-78 0'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 11:45:00 AM

Lab ID: 2301135-016

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	1/9/2023 9:23:22 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/9/2023 9:23:22 PM
Surr: DNOP	133	21-129	S	%Rec	1	1/9/2023 9:23:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/10/2023 9:08:00 PM
Surr: BFB	112	37.7-212		%Rec	1	1/10/2023 9:08:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 9:08:00 PM
Toluene	ND	0.049		mg/Kg	1	1/10/2023 9:08:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/10/2023 9:08:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/10/2023 9:08:00 PM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/10/2023 9:08:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	61		mg/Kg	20	1/10/2023 12:01:14 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-78 2'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 11:50:00 AM

Lab ID: 2301135-017

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/9/2023 9:33:59 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/9/2023 9:33:59 PM
Surr: DNOP	143	21-129	S	%Rec	1	1/9/2023 9:33:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/10/2023 9:28:00 PM
Surr: BFB	105	37.7-212		%Rec	1	1/10/2023 9:28:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/10/2023 9:28:00 PM
Toluene	ND	0.050		mg/Kg	1	1/10/2023 9:28:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/10/2023 9:28:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/10/2023 9:28:00 PM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/10/2023 9:28:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	1/10/2023 12:13:38 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-98 4'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 12:35:00 PM

Lab ID: 2301135-018

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/9/2023 9:44:33 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/9/2023 9:44:33 PM
Surr: DNOP	119	21-129		%Rec	1	1/9/2023 9:44:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/10/2023 9:47:00 PM
Surr: BFB	105	37.7-212		%Rec	1	1/10/2023 9:47:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 9:47:00 PM
Toluene	ND	0.048		mg/Kg	1	1/10/2023 9:47:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2023 9:47:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/10/2023 9:47:00 PM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/10/2023 9:47:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	1/10/2023 12:26:03 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-99 0'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 12:40:00 PM

Lab ID: 2301135-019

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	1/9/2023 9:55:09 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/9/2023 9:55:09 PM
Surr: DNOP	118	21-129		%Rec	1	1/9/2023 9:55:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/10/2023 10:07:00 PM
Surr: BFB	108	37.7-212		%Rec	1	1/10/2023 10:07:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 10:07:00 PM
Toluene	ND	0.048		mg/Kg	1	1/10/2023 10:07:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2023 10:07:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2023 10:07:00 PM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/10/2023 10:07:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	150	60		mg/Kg	20	1/10/2023 12:38:27 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-99 2'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 12:45:00 PM

Lab ID: 2301135-020

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/9/2023 10:05:42 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/9/2023 10:05:42 PM
Surr: DNOP	117	21-129		%Rec	1	1/9/2023 10:05:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/10/2023 10:27:00 PM
Surr: BFB	104	37.7-212		%Rec	1	1/10/2023 10:27:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/10/2023 10:27:00 PM
Toluene	ND	0.050		mg/Kg	1	1/10/2023 10:27:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/10/2023 10:27:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/10/2023 10:27:00 PM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/10/2023 10:27:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	780	60		mg/Kg	20	1/10/2023 1:15:40 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-99 4'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 12:50:00 PM

Lab ID: 2301135-021

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/9/2023 10:16:17 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/9/2023 10:16:17 PM
Surr: DNOP	115	21-129		%Rec	1	1/9/2023 10:16:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/10/2023 10:46:00 PM
Surr: BFB	102	37.7-212		%Rec	1	1/10/2023 10:46:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/10/2023 10:46:00 PM
Toluene	ND	0.048		mg/Kg	1	1/10/2023 10:46:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/10/2023 10:46:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/10/2023 10:46:00 PM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/10/2023 10:46:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	59	59		mg/Kg	20	1/10/2023 1:28:05 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-100 0'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 12:55:00 PM

Lab ID: 2301135-022

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/9/2023 10:26:54 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/9/2023 10:26:54 PM
Surr: DNOP	119	21-129		%Rec	1	1/9/2023 10:26:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/10/2023 11:06:00 PM
Surr: BFB	105	37.7-212		%Rec	1	1/10/2023 11:06:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/10/2023 11:06:00 PM
Toluene	ND	0.050		mg/Kg	1	1/10/2023 11:06:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/10/2023 11:06:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/10/2023 11:06:00 PM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/10/2023 11:06:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	460	60		mg/Kg	20	1/10/2023 1:40:30 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-100 2'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 1:00:00 AM

Lab ID: 2301135-023

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/9/2023 10:37:28 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/9/2023 10:37:28 PM
Surr: DNOP	109	21-129		%Rec	1	1/9/2023 10:37:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 12:05:00 AM
Surr: BFB	103	37.7-212		%Rec	1	1/11/2023 12:05:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/11/2023 12:05:00 AM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 12:05:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 12:05:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2023 12:05:00 AM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/11/2023 12:05:00 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	960	60		mg/Kg	20	1/10/2023 1:52:54 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-100 4'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 1:05:00 PM

Lab ID: 2301135-024

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	1/9/2023 10:48:02 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/9/2023 10:48:02 PM
Surr: DNOP	108	21-129		%Rec	1	1/9/2023 10:48:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 12:25:00 AM
Surr: BFB	103	37.7-212		%Rec	1	1/11/2023 12:25:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/11/2023 12:25:00 AM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 12:25:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 12:25:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/11/2023 12:25:00 AM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/11/2023 12:25:00 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	470	60		mg/Kg	20	1/10/2023 2:05:19 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-101 0'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 1:10:00 PM

Lab ID: 2301135-025

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/9/2023 11:30:09 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/9/2023 11:30:09 PM
Surr: DNOP	108	21-129		%Rec	1	1/9/2023 11:30:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/9/2023 2:57:00 PM
Surr: BFB	105	37.7-212		%Rec	1	1/9/2023 2:57:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/9/2023 2:57:00 PM
Toluene	ND	0.049		mg/Kg	1	1/9/2023 2:57:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/9/2023 2:57:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/9/2023 2:57:00 PM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/9/2023 2:57:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	440	59		mg/Kg	20	1/10/2023 2:17:43 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-101 2'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 1:15:00 PM

Lab ID: 2301135-026

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/10/2023 12:01:54 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/10/2023 12:01:54 AM
Surr: DNOP	108	21-129		%Rec	1	1/10/2023 12:01:54 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/9/2023 3:17:00 PM
Surr: BFB	108	37.7-212		%Rec	1	1/9/2023 3:17:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/9/2023 3:17:00 PM
Toluene	ND	0.050		mg/Kg	1	1/9/2023 3:17:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/9/2023 3:17:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/9/2023 3:17:00 PM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/9/2023 3:17:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	990	60		mg/Kg	20	1/10/2023 2:30:07 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-101 4'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 1:20:00 PM

Lab ID: 2301135-027

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/10/2023 12:12:31 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/10/2023 12:12:31 AM
Surr: DNOP	109	21-129		%Rec	1	1/10/2023 12:12:31 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/9/2023 3:37:00 PM
Surr: BFB	109	37.7-212		%Rec	1	1/9/2023 3:37:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/9/2023 3:37:00 PM
Toluene	ND	0.049		mg/Kg	1	1/9/2023 3:37:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/9/2023 3:37:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/9/2023 3:37:00 PM
Surr: 4-Bromofluorobenzene	125	70-130		%Rec	1	1/9/2023 3:37:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	1100	59		mg/Kg	20	1/10/2023 2:42:31 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-102 0'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 1:25:00 PM

Lab ID: 2301135-028

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/10/2023 12:23:10 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/10/2023 12:23:10 AM
Surr: DNOP	108	21-129		%Rec	1	1/10/2023 12:23:10 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/9/2023 3:56:00 PM
Surr: BFB	109	37.7-212		%Rec	1	1/9/2023 3:56:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/9/2023 3:56:00 PM
Toluene	ND	0.049		mg/Kg	1	1/9/2023 3:56:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/9/2023 3:56:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/9/2023 3:56:00 PM
Surr: 4-Bromofluorobenzene	126	70-130		%Rec	1	1/9/2023 3:56:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	320	60		mg/Kg	20	1/10/2023 2:54:56 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-102 2'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 1:30:00 PM

Lab ID: 2301135-029

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/10/2023 12:33:49 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/10/2023 12:33:49 AM
Surr: DNOP	109	21-129		%Rec	1	1/10/2023 12:33:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/9/2023 4:16:00 PM
Surr: BFB	107	37.7-212		%Rec	1	1/9/2023 4:16:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/9/2023 4:16:00 PM
Toluene	ND	0.049		mg/Kg	1	1/9/2023 4:16:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/9/2023 4:16:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/9/2023 4:16:00 PM
Surr: 4-Bromofluorobenzene	127	70-130		%Rec	1	1/9/2023 4:16:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	760	60		mg/Kg	20	1/10/2023 3:07:20 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-102 4'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 1:35:00 PM

Lab ID: 2301135-030

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/10/2023 12:44:27 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/10/2023 12:44:27 AM
Surr: DNOP	133	21-129	S	%Rec	1	1/10/2023 12:44:27 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/9/2023 4:36:00 PM
Surr: BFB	110	37.7-212		%Rec	1	1/9/2023 4:36:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/9/2023 4:36:00 PM
Toluene	ND	0.050		mg/Kg	1	1/9/2023 4:36:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/9/2023 4:36:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/9/2023 4:36:00 PM
Surr: 4-Bromofluorobenzene	127	70-130		%Rec	1	1/9/2023 4:36:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	74	61		mg/Kg	20	1/10/2023 4:54:53 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-103 0'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 1:40:00 PM

Lab ID: 2301135-031

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/10/2023 12:55:09 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/10/2023 12:55:09 AM
Surr: DNOP	113	21-129		%Rec	1	1/10/2023 12:55:09 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/9/2023 5:15:00 PM
Surr: BFB	108	37.7-212		%Rec	1	1/9/2023 5:15:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/9/2023 5:15:00 PM
Toluene	ND	0.048		mg/Kg	1	1/9/2023 5:15:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/9/2023 5:15:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/9/2023 5:15:00 PM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/9/2023 5:15:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	86	60		mg/Kg	20	1/10/2023 5:07:14 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-103 2'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 1:45:00 PM

Lab ID: 2301135-032

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/10/2023 1:05:49 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/10/2023 1:05:49 AM
Surr: DNOP	112	21-129		%Rec	1	1/10/2023 1:05:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/9/2023 5:35:00 PM
Surr: BFB	100	37.7-212		%Rec	1	1/9/2023 5:35:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/9/2023 5:35:00 PM
Toluene	ND	0.049		mg/Kg	1	1/9/2023 5:35:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/9/2023 5:35:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/9/2023 5:35:00 PM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/9/2023 5:35:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	780	60		mg/Kg	20	1/10/2023 5:19:35 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-103 4'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 1:50:00 PM

Lab ID: 2301135-033

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/10/2023 1:26:51 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/10/2023 1:26:51 AM
Surr: DNOP	111	21-129		%Rec	1	1/10/2023 1:26:51 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/9/2023 5:54:00 PM
Surr: BFB	101	37.7-212		%Rec	1	1/9/2023 5:54:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/9/2023 5:54:00 PM
Toluene	ND	0.049		mg/Kg	1	1/9/2023 5:54:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/9/2023 5:54:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/9/2023 5:54:00 PM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/9/2023 5:54:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/10/2023 11:39:51 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-78 4'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 11:55:00 AM

Lab ID: 2301135-034

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/10/2023 1:37:25 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/10/2023 1:37:25 AM
Surr: DNOP	122	21-129		%Rec	1	1/10/2023 1:37:25 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/9/2023 6:14:00 PM
Surr: BFB	99.6	37.7-212		%Rec	1	1/9/2023 6:14:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/9/2023 6:14:00 PM
Toluene	ND	0.049		mg/Kg	1	1/9/2023 6:14:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/9/2023 6:14:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/9/2023 6:14:00 PM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/9/2023 6:14:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/10/2023 12:17:04 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-79 0'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 12:00:00 PM

Lab ID: 2301135-035

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/10/2023 1:48:09 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/10/2023 1:48:09 AM
Surr: DNOP	119	21-129		%Rec	1	1/10/2023 1:48:09 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/9/2023 6:34:00 PM
Surr: BFB	105	37.7-212		%Rec	1	1/9/2023 6:34:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/9/2023 6:34:00 PM
Toluene	ND	0.048		mg/Kg	1	1/9/2023 6:34:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/9/2023 6:34:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/9/2023 6:34:00 PM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/9/2023 6:34:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/10/2023 12:54:19 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-79 2'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 12:05:00 PM

Lab ID: 2301135-036

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/10/2023 1:58:51 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/10/2023 1:58:51 AM
Surr: DNOP	115	21-129		%Rec	1	1/10/2023 1:58:51 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/9/2023 6:53:00 PM
Surr: BFB	106	37.7-212		%Rec	1	1/9/2023 6:53:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/9/2023 6:53:00 PM
Toluene	ND	0.050		mg/Kg	1	1/9/2023 6:53:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/9/2023 6:53:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/9/2023 6:53:00 PM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/9/2023 6:53:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/10/2023 1:31:33 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-79 4'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 12:10:00 PM

Lab ID: 2301135-037

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	1/10/2023 2:09:30 AM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	1/10/2023 2:09:30 AM
Surr: DNOP	113	21-129		%Rec	1	1/10/2023 2:09:30 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/9/2023 7:13:00 PM
Surr: BFB	121	37.7-212		%Rec	1	1/9/2023 7:13:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/9/2023 7:13:00 PM
Toluene	ND	0.049		mg/Kg	1	1/9/2023 7:13:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/9/2023 7:13:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/9/2023 7:13:00 PM
Surr: 4-Bromofluorobenzene	128	70-130		%Rec	1	1/9/2023 7:13:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/10/2023 1:43:58 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-94 0'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 1:55:00 PM

Lab ID: 2301135-038

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/10/2023 2:20:09 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/10/2023 2:20:09 AM
Surr: DNOP	106	21-129		%Rec	1	1/10/2023 2:20:09 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/9/2023 7:33:00 PM
Surr: BFB	112	37.7-212		%Rec	1	1/9/2023 7:33:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/9/2023 7:33:00 PM
Toluene	ND	0.050		mg/Kg	1	1/9/2023 7:33:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/9/2023 7:33:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/9/2023 7:33:00 PM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/9/2023 7:33:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/10/2023 1:56:22 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-94 2'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 2:00:00 PM

Lab ID: 2301135-039

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	1/10/2023 2:30:46 AM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	1/10/2023 2:30:46 AM
Surr: DNOP	105	21-129		%Rec	1	1/10/2023 2:30:46 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/9/2023 7:53:00 PM
Surr: BFB	108	37.7-212		%Rec	1	1/9/2023 7:53:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/9/2023 7:53:00 PM
Toluene	ND	0.049		mg/Kg	1	1/9/2023 7:53:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/9/2023 7:53:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/9/2023 7:53:00 PM
Surr: 4-Bromofluorobenzene	126	70-130		%Rec	1	1/9/2023 7:53:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	210	60		mg/Kg	20	1/10/2023 2:08:46 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-94 4'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 2:05:00 PM

Lab ID: 2301135-040

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/10/2023 2:41:20 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/10/2023 2:41:20 AM
Surr: DNOP	104	21-129		%Rec	1	1/10/2023 2:41:20 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/9/2023 8:12:00 PM
Surr: BFB	105	37.7-212		%Rec	1	1/9/2023 8:12:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/9/2023 8:12:00 PM
Toluene	ND	0.049		mg/Kg	1	1/9/2023 8:12:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/9/2023 8:12:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/9/2023 8:12:00 PM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/9/2023 8:12:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	380	60		mg/Kg	20	1/10/2023 2:21:11 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-95 0'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 2:10:00 PM

Lab ID: 2301135-041

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/10/2023 11:11:50 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/10/2023 11:11:50 AM
Surr: DNOP	119	21-129		%Rec	1	1/10/2023 11:11:50 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 1:44:00 AM
Surr: BFB	101	37.7-212		%Rec	1	1/11/2023 1:44:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/11/2023 1:44:00 AM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 1:44:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 1:44:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/11/2023 1:44:00 AM
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	1/11/2023 1:44:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	1100	60		mg/Kg	20	1/10/2023 2:33:35 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-95 2'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 2:15:00 PM

Lab ID: 2301135-042

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/10/2023 12:26:31 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/10/2023 12:26:31 PM
Surr: DNOP	114	21-129		%Rec	1	1/10/2023 12:26:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2023 2:43:00 AM
Surr: BFB	100	37.7-212		%Rec	1	1/11/2023 2:43:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/11/2023 2:43:00 AM
Toluene	ND	0.050		mg/Kg	1	1/11/2023 2:43:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2023 2:43:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/11/2023 2:43:00 AM
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	1/11/2023 2:43:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/10/2023 2:45:59 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-95 4'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 2:20:00 PM

Lab ID: 2301135-043

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/10/2023 12:37:02 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/10/2023 12:37:02 PM
Surr: DNOP	119	21-129		%Rec	1	1/10/2023 12:37:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2023 3:42:00 AM
Surr: BFB	104	37.7-212		%Rec	1	1/11/2023 3:42:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/11/2023 3:42:00 AM
Toluene	ND	0.050		mg/Kg	1	1/11/2023 3:42:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2023 3:42:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2023 3:42:00 AM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/11/2023 3:42:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	120	60		mg/Kg	20	1/10/2023 2:58:23 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-96 2'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 2:30:00 PM

Lab ID: 2301135-044

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/10/2023 12:47:36 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/10/2023 12:47:36 PM
Surr: DNOP	80.3	21-129		%Rec	1	1/10/2023 12:47:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 4:02:00 AM
Surr: BFB	111	37.7-212		%Rec	1	1/11/2023 4:02:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/11/2023 4:02:00 AM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 4:02:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 4:02:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/11/2023 4:02:00 AM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/11/2023 4:02:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	100	60		mg/Kg	20	1/10/2023 3:10:49 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-96 4'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 2:35:00 PM

Lab ID: 2301135-045

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/10/2023 12:58:10 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/10/2023 12:58:10 PM
Surr: DNOP	86.5	21-129		%Rec	1	1/10/2023 12:58:10 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 4:21:00 AM
Surr: BFB	106	37.7-212		%Rec	1	1/11/2023 4:21:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/11/2023 4:21:00 AM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 4:21:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 4:21:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/11/2023 4:21:00 AM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/11/2023 4:21:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	230	61		mg/Kg	20	1/10/2023 3:23:13 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-97 0'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 12:15:00 PM

Lab ID: 2301135-046

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/10/2023 1:08:45 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/10/2023 1:08:45 PM
Surr: DNOP	127	21-129		%Rec	1	1/10/2023 1:08:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 4:41:00 AM
Surr: BFB	103	37.7-212		%Rec	1	1/11/2023 4:41:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/11/2023 4:41:00 AM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 4:41:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 4:41:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/11/2023 4:41:00 AM
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	1/11/2023 4:41:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	320	60		mg/Kg	20	1/10/2023 4:00:27 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-97 2'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 12:20:00 PM

Lab ID: 2301135-047

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/10/2023 1:29:51 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/10/2023 1:29:51 PM
Surr: DNOP	111	21-129		%Rec	1	1/10/2023 1:29:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2023 5:01:00 AM
Surr: BFB	102	37.7-212		%Rec	1	1/11/2023 5:01:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/11/2023 5:01:00 AM
Toluene	ND	0.050		mg/Kg	1	1/11/2023 5:01:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2023 5:01:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2023 5:01:00 AM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/11/2023 5:01:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	61		mg/Kg	20	1/10/2023 4:12:52 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-97 4'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 12:25:00 PM

Lab ID: 2301135-048

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/10/2023 1:40:27 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/10/2023 1:40:27 PM
Surr: DNOP	95.9	21-129		%Rec	1	1/10/2023 1:40:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2023 5:20:00 AM
Surr: BFB	105	37.7-212		%Rec	1	1/11/2023 5:20:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/11/2023 5:20:00 AM
Toluene	ND	0.050		mg/Kg	1	1/11/2023 5:20:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2023 5:20:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/11/2023 5:20:00 AM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/11/2023 5:20:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/10/2023 4:25:16 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-98 0'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 12:30:00 PM

Lab ID: 2301135-049

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/10/2023 3:50:26 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/10/2023 3:50:26 PM
Surr: DNOP	116	21-129		%Rec	1	1/10/2023 3:50:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 6:00:00 AM
Surr: BFB	105	37.7-212		%Rec	1	1/11/2023 6:00:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/11/2023 6:00:00 AM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 6:00:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 6:00:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2023 6:00:00 AM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/11/2023 6:00:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	1/10/2023 4:37:41 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301135

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-98 2'

Project: East Pecos Pipeline

Collection Date: 1/3/2023 12:30:00 PM

Lab ID: 2301135-050

Matrix: SOIL

Received Date: 1/5/2023 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/10/2023 5:58:03 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/10/2023 5:58:03 PM
Surr: DNOP	110	21-129		%Rec	1	1/10/2023 5:58:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 6:19:00 AM
Surr: BFB	105	37.7-212		%Rec	1	1/11/2023 6:19:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/11/2023 6:19:00 AM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 6:19:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 6:19:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/11/2023 6:19:00 AM
Surr: 4-Bromofluorobenzene	123	70-130		%Rec	1	1/11/2023 6:19:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	68	60		mg/Kg	20	1/10/2023 4:50:07 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301135

17-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline

Sample ID: MB-72522	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 72522		RunNo: 93832							
Prep Date: 1/9/2023	Analysis Date: 1/9/2023		SeqNo: 3387237		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72522	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 72522		RunNo: 93832							
Prep Date: 1/9/2023	Analysis Date: 1/9/2023		SeqNo: 3387238		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

Sample ID: MB-72523	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 72523		RunNo: 93832							
Prep Date: 1/9/2023	Analysis Date: 1/9/2023		SeqNo: 3387267		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72523	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 72523		RunNo: 93832							
Prep Date: 1/9/2023	Analysis Date: 1/9/2023		SeqNo: 3387268		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Sample ID: MB-72544	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 72544		RunNo: 93840							
Prep Date: 1/10/2023	Analysis Date: 1/10/2023		SeqNo: 3388410		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72544	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 72544		RunNo: 93840							
Prep Date: 1/10/2023	Analysis Date: 1/10/2023		SeqNo: 3388411		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301135

17-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline

Sample ID: 2301135-005AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-74 2'	Batch ID: 72495	RunNo: 93818								
Prep Date: 1/6/2023	Analysis Date: 1/9/2023	SeqNo: 3386751 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.7	48.40	0	88.9	36.1	154			
Surr: DNOP	5.8		4.840		119	21	129			

Sample ID: 2301135-005AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-74 2'	Batch ID: 72495	RunNo: 93818								
Prep Date: 1/6/2023	Analysis Date: 1/9/2023	SeqNo: 3386752 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.3	46.55	0	86.3	36.1	154	6.89	33.9	
Surr: DNOP	5.4		4.655		117	21	129	0	0	

Sample ID: 2301135-025AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-101 0'	Batch ID: 72502	RunNo: 93818								
Prep Date: 1/6/2023	Analysis Date: 1/9/2023	SeqNo: 3386773 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	9.7	48.59	0	108	36.1	154			
Surr: DNOP	6.9		4.859		142	21	129			S

Sample ID: 2301135-025AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-101 0'	Batch ID: 72502	RunNo: 93818								
Prep Date: 1/6/2023	Analysis Date: 1/9/2023	SeqNo: 3386774 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.10	0	85.4	36.1	154	20.0	33.9	
Surr: DNOP	5.8		5.010		115	21	129	0	0	

Sample ID: LCS-72492	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72492	RunNo: 93818								
Prep Date: 1/6/2023	Analysis Date: 1/9/2023	SeqNo: 3386797 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.1	64.4	127			
Surr: DNOP	5.6		5.000		111	21	129			

Sample ID: LCS-72495	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72495	RunNo: 93818								
Prep Date: 1/6/2023	Analysis Date: 1/9/2023	SeqNo: 3386798 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301135

17-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline

Sample ID: LCS-72495	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 72495			RunNo: 93818						
Prep Date: 1/6/2023	Analysis Date: 1/9/2023			SeqNo: 3386798		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	10	50.00	0	81.0	64.4	127			
Surr: DNOP	5.7		5.000		114	21	129			

Sample ID: LCS-72502	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 72502			RunNo: 93818						
Prep Date: 1/6/2023	Analysis Date: 1/9/2023			SeqNo: 3386799		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.4	64.4	127			
Surr: DNOP	5.5		5.000		111	21	129			

Sample ID: MB-72492	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 72492			RunNo: 93818						
Prep Date: 1/6/2023	Analysis Date: 1/9/2023			SeqNo: 3386800		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	21	129			

Sample ID: MB-72495	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 72495			RunNo: 93818						
Prep Date: 1/6/2023	Analysis Date: 1/9/2023			SeqNo: 3386801		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		108	21	129			

Sample ID: MB-72502	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 72502			RunNo: 93818						
Prep Date: 1/6/2023	Analysis Date: 1/9/2023			SeqNo: 3386803		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		112	21	129			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301135

17-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline

Sample ID: 2301135-041AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-95 0'	Batch ID: 72510	RunNo: 93847								
Prep Date: 1/9/2023	Analysis Date: 1/10/2023	SeqNo: 3387673	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	31	9.6	48.08	0	63.6	36.1	154			
Surr: DNOP	4.1		4.808		84.6	21	129			

Sample ID: 2301135-041AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-95 0'	Batch ID: 72510	RunNo: 93847								
Prep Date: 1/9/2023	Analysis Date: 1/10/2023	SeqNo: 3387674	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	9.4	47.21	0	77.9	36.1	154	18.4	33.9	
Surr: DNOP	4.6		4.721		97.8	21	129	0	0	

Sample ID: LCS-72510	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72510	RunNo: 93847								
Prep Date: 1/9/2023	Analysis Date: 1/10/2023	SeqNo: 3387686	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	64.4	127			
Surr: DNOP	6.4		5.000		127	21	129			

Sample ID: MB-72510	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72510	RunNo: 93847								
Prep Date: 1/9/2023	Analysis Date: 1/10/2023	SeqNo: 3387688	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		111	21	129			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301135

17-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline

Sample ID: ics-72481	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 72481				RunNo: 93793					
Prep Date: 1/5/2023	Analysis Date: 1/6/2023				SeqNo: 3386252	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.0	72.3	137			
Surr: BFB	1800		1000		180	37.7	212			

Sample ID: mb-72481	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 72481				RunNo: 93793					
Prep Date: 1/5/2023	Analysis Date: 1/7/2023				SeqNo: 3386254	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.1	37.7	212			

Sample ID: ics-72494	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 72494				RunNo: 93823					
Prep Date: 1/6/2023	Analysis Date: 1/9/2023				SeqNo: 3386844	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	72.3	137			
Surr: BFB	2300		1000		230	37.7	212			S

Sample ID: mb-72494	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 72494				RunNo: 93823					
Prep Date: 1/6/2023	Analysis Date: 1/9/2023				SeqNo: 3386845	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		108	37.7	212			

Sample ID: ics-72486	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 72486				RunNo: 93846					
Prep Date: 1/5/2023	Analysis Date: 1/10/2023				SeqNo: 3388194	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.4	72.3	137			
Surr: BFB	2300		1000		225	37.7	212			S

Sample ID: mb-72486	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 72486				RunNo: 93846					
Prep Date: 1/5/2023	Analysis Date: 1/10/2023				SeqNo: 3388195	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301135

17-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline

Sample ID: mb-72486	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 72486			RunNo: 93846						
Prep Date: 1/5/2023	Analysis Date: 1/10/2023			SeqNo: 3388195		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	37.7	212			

Sample ID: 2301135-005ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH22-74 2'	Batch ID: 72486			RunNo: 93846						
Prep Date: 1/5/2023	Analysis Date: 1/10/2023			SeqNo: 3388197		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.46	0	91.0	70	130			
Surr: BFB	2100		978.5		214	37.7	212			S

Sample ID: 2301135-005amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH22-74 2'	Batch ID: 72486			RunNo: 93846						
Prep Date: 1/5/2023	Analysis Date: 1/10/2023			SeqNo: 3388198		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.53	0	92.5	70	130	1.91	20	
Surr: BFB	2000		981.4		208	37.7	212	0	0	

Sample ID: lcs-72500	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 72500			RunNo: 93846						
Prep Date: 1/6/2023	Analysis Date: 1/11/2023			SeqNo: 3388218		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.0	72.3	137			
Surr: BFB	2300		1000		225	37.7	212			S

Sample ID: mb-72500	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 72500			RunNo: 93846						
Prep Date: 1/6/2023	Analysis Date: 1/11/2023			SeqNo: 3388219		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	37.7	212			

Sample ID: 2301135-041ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH22-95 0'	Batch ID: 72500			RunNo: 93846						
Prep Date: 1/6/2023	Analysis Date: 1/11/2023			SeqNo: 3388221		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301135

17-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline

Sample ID: 2301135-041ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH22-95 0'	Batch ID: 72500		RunNo: 93846							
Prep Date: 1/6/2023	Analysis Date: 1/11/2023		SeqNo: 3388221		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.51	0	86.4	70	130			
Surr: BFB	2200		980.4		227	37.7	212			S

Sample ID: 2301135-041amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BH22-95 0'	Batch ID: 72500		RunNo: 93846							
Prep Date: 1/6/2023	Analysis Date: 1/11/2023		SeqNo: 3388222		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	24.78	0	81.2	70	130	5.03	20	
Surr: BFB	2200		991.1		219	37.7	212	0	0	S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301135

17-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline

Sample ID: ics-72494	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72494		RunNo: 93823							
Prep Date: 1/6/2023	Analysis Date: 1/9/2023		SeqNo: 3386882		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	109	80	120			
Toluene	1.1	0.050	1.000	0	113	80	120			
Ethylbenzene	1.1	0.050	1.000	0	113	80	120			
Xylenes, Total	3.4	0.10	3.000	0	113	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		128	70	130			

Sample ID: mb-72494	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72494		RunNo: 93823							
Prep Date: 1/6/2023	Analysis Date: 1/9/2023		SeqNo: 3386883		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.3		1.000		128	70	130			

Sample ID: ics-72481	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72481		RunNo: 93823							
Prep Date: 1/5/2023	Analysis Date: 1/9/2023		SeqNo: 3386906		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	102	80	120			
Toluene	1.1	0.050	1.000	0	105	80	120			
Ethylbenzene	1.1	0.050	1.000	0	106	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		127	70	130			

Sample ID: mb-72481	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72481		RunNo: 93823							
Prep Date: 1/5/2023	Analysis Date: 1/9/2023		SeqNo: 3386907		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		124	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301135

17-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline

Sample ID: ics-72486	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72486		RunNo: 93846							
Prep Date: 1/5/2023	Analysis Date: 1/10/2023		SeqNo: 3388239		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	108	80	120			
Toluene	1.1	0.050	1.000	0	112	80	120			
Ethylbenzene	1.1	0.050	1.000	0	113	80	120			
Xylenes, Total	3.4	0.10	3.000	0	113	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		122	70	130			

Sample ID: mb-72486	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72486		RunNo: 93846							
Prep Date: 1/5/2023	Analysis Date: 1/10/2023		SeqNo: 3388240		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		120	70	130			

Sample ID: 2301135-006ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-74 4'	Batch ID: 72486		RunNo: 93846							
Prep Date: 1/5/2023	Analysis Date: 1/10/2023		SeqNo: 3388243		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9785	0	104	68.8	120			
Toluene	1.1	0.049	0.9785	0	109	73.6	124			
Ethylbenzene	1.1	0.049	0.9785	0	110	72.7	129			
Xylenes, Total	3.2	0.098	2.935	0	110	75.7	126			
Surr: 4-Bromofluorobenzene	1.2		0.9785		123	70	130			

Sample ID: 2301135-006amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-74 4'	Batch ID: 72486		RunNo: 93846							
Prep Date: 1/5/2023	Analysis Date: 1/10/2023		SeqNo: 3388244		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	0.9814	0	101	68.8	120	2.73	20	
Toluene	1.0	0.049	0.9814	0	105	73.6	124	3.22	20	
Ethylbenzene	1.0	0.049	0.9814	0	106	72.7	129	3.03	20	
Xylenes, Total	3.1	0.098	2.944	0	106	75.7	126	3.24	20	
Surr: 4-Bromofluorobenzene	1.2		0.9814		125	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301135

17-Jan-23

Client: Devon Energy
Project: East Pecos Pipeline

Sample ID: ics-72500	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72500		RunNo: 93846							
Prep Date: 1/6/2023	Analysis Date: 1/11/2023		SeqNo: 3388263		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	110	80	120			
Toluene	1.1	0.050	1.000	0	113	80	120			
Ethylbenzene	1.1	0.050	1.000	0	114	80	120			
Xylenes, Total	3.4	0.10	3.000	0	115	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		123	70	130			

Sample ID: mb-72500	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72500		RunNo: 93846							
Prep Date: 1/6/2023	Analysis Date: 1/11/2023		SeqNo: 3388264		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		123	70	130			

Sample ID: 2301135-042ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-95 2'	Batch ID: 72500		RunNo: 93846							
Prep Date: 1/6/2023	Analysis Date: 1/11/2023		SeqNo: 3388267		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9930	0	105	68.8	120			
Toluene	1.1	0.050	0.9930	0	112	73.6	124			
Ethylbenzene	1.1	0.050	0.9930	0	114	72.7	129			
Xylenes, Total	3.4	0.099	2.979	0	115	75.7	126			
Surr: 4-Bromofluorobenzene	1.2		0.9930		121	70	130			

Sample ID: 2301135-042amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-95 2'	Batch ID: 72500		RunNo: 93846							
Prep Date: 1/6/2023	Analysis Date: 1/11/2023		SeqNo: 3388268		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9960	0	103	68.8	120	2.01	20	
Toluene	1.1	0.050	0.9960	0	112	73.6	124	0.454	20	
Ethylbenzene	1.1	0.050	0.9960	0	114	72.7	129	0.249	20	
Xylenes, Total	3.4	0.10	2.988	0	114	75.7	126	0.108	20	
Surr: 4-Bromofluorobenzene	1.2		0.9960		123	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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

Sample Log-In Check List

Client Name: Devon Energy

Work Order Number: 2301135

RcptNo: 1

Received By: Tracy Casarrubias 1/5/2023 7:40:00 AM

Completed By: Tracy Casarrubias 1/5/2023 7:55:48 AM

Reviewed By: *SC 1/5/23*

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *JW 1/5/23*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: Mailing Address, phone number and email were left out on COC. - TMC 1/5/23

16. Additional remarks:

17. Cooler Information

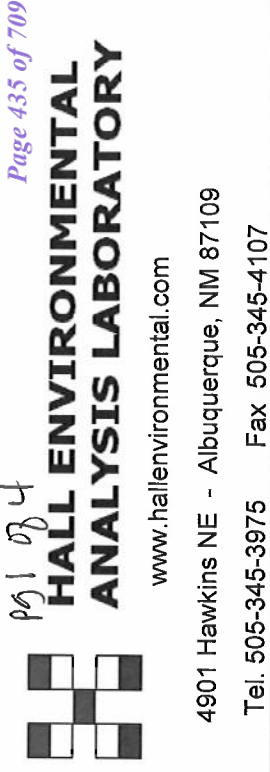
Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.9	Good	Yes			

Client: Devon LWPX
Jim Bailey
 Mailing Address: _____

Turn-Around Time: _____
☒ Standard ☒ Rush 5 Day
 Project Name: East Pecos Pipeline
 Project #: 22E-03982

Phone #: _____
 email or Fax#: _____
 QA/QC Package: _____
☐ Standard ☐ Level 4 (Full Validation)
 Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other _____
☐ EDD (Type) _____

Project Manager: Monica Peppin
 Sampler: mzp/mw/hk
 On Ice: ☒ Yes ☐ No
 # of Coolers: 1
 Cooler Temp (including CF): 5.8 + 0.1 = 5.9 °C
 Container Type and # 402 1CL Preservative Type 001 HEAL No. 2301135



Analysis Request			Analysis Request									
Date	Time	Matrix	Sample Name	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	CF, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
1.3.23	10:30	Soil	BH22-73 0'	X	X				X			
1.3.23	10:35		BH22-73 2'									
1.3.23	10:40		BH22-73 4'									
1.3.23	10:45		BH22-74 0'									
1.3.23	10:50		BH22-74 2'									
1.3.23	10:55		BH22-74 4'									
1.3.23	11:00		BH22-75 0'									
1.3.23	11:05		BH22-75 2'									
1.3.23	11:10		BH22-75 4'									
1.3.23	11:15		BH22-76 0'									
1.3.23	11:20		BH22-76 2'									
1.3.23	11:25		BH22-76 4'									
1.3.23	11:30		BH22-77 0'									
1.3.23	11:35		BH22-77 2'									
1.3.23	11:40		BH22-77 4'									
1.3.23	11:45		BH22-78 0'									
1.3.23	11:50		BH22-78 2'									

Client:	Duron	WPX
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☒ Standard ☒ Rush 5 Days

Project Name:

East Pecos Pipeline

Mailing Address:

Project #:

22E-03982

email or Fax#:

Monica Peppin

Sampler: $msf/mw/hk$

On Ice: ☒ Yes ☐ No

of Coolers: 1 Markin

Cooler Temp (including CF): $5.9 + 0.1 = 6.0$

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Container	Preservative	HEAI No	Na

2301135

402	100018
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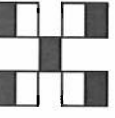
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Cam 1/5/23 7:00

Turn-Around Time:



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

email or Fax#:		QA/QC Package:		Project Manager:	
<input type="checkbox"/> Standard		<input type="checkbox"/> Level 4 (Full Validation)		<i>Monica Peppin</i>	
Accreditation:		<input type="checkbox"/> Az Compliance		Sampler: <i>MSP/mw/HK</i>	
<input type="checkbox"/> NELAC		<input type="checkbox"/> Other		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> EDD (Type)				# of Coolers: <i>1</i>	
				Cooler Temp (including CF): <i>5.8 + 0.1 = 5.9</i>	
				HEAL No. <i>2301135</i>	
				Container Type and #	
				Preservative Type	
				Sample Name	
Date	Time	Matrix	Sample Name		
1.3.23	12:39		BH22-98 4'	402	
1.3.23	12:40		BH22-99 0'	019	
1.3.23	12:46		BH22-99 2'	020	
1.3.23	12:50		BH22-99 4'	021	
1.3.23	12:55		BH22-100 0'	022	
1.3.23	1:00		BH22-100 2'	023	
1.3.23	1:05		BH22-100 4'	024	
1.3.23	1:10		BH22-101 0'	025	
1.3.23	1:15		BH22-101 2'	026	
1.3.23	1:20		BH22-101 4'	027	
1.3.23	1:25		BH22-102 0'	028	
1.3.23	1:30		BH22-102 2'	029	
1.3.23	1:38		BH22-102 4'	030	
1.3.23	1:40		BH22-103 0'	031	
1.3.23	1:48		BH22-103 2'	032	
1.3.23	1:50		BH22-103 4'	033	
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				129	

Turn-Around Time:

☐ Standard ☒ Rush 5 Day
 Project Name: East Pecos Pipeline
 Project #: 22E-03982

Phone #:
 email or Fax#:
 QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
 Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other
☐ EDD (Type)

Project Manager: Monica Peppin
 Sampler: MJP/MW/HK
 On Ice: ☒ Yes ☐ No
 # of Coolers: 1
 Cooler Temp (including CF): 5.0 + 0.1 = 5.1°C

Analysis Request									
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCBs	EDB (Method 504.1)
1.3.23	11:55	Soil	BH22-78 4'	402	12	035 034	(BTEX) MTBE / TMBs (8021)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals
1.3.23	12:00		BH22-79 0'			036 035	Ch, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)
1.3.23	12:05		BH22-79 2'			037 036			
1.3.23	12:10		BH22-79 4'			038 037			
1.3.23	12:15	155	BH22-94 0'			039 038			
1.3.23	2:00	200	BH22-94 2'			040 039			
1.3.23	2:05		BH22-94 4'			041 040			
1.3.23	2:10		BH22-95 0'			042 041			
1.3.23	2:15		BH22-95 2'			043 042			
1.3.23	2:20		BH22-95 4'			044 043			
1.3.23	2:30		BH22-96 2'			045 044			
1.3.23	2:35		BH22-96 4'			046 045			
1.3.23	12:15		BH22-97 0'			047 046			
1.3.23	12:20		BH22-97 2'			048 047			
1.3.23	12:25		BH22-97 4'			049 048			
1.3.23	12:30		BH22-98 0'			050 049			
1.3.23	12:30		BH22-98 2'			051 050			

Client: Devon / WPK

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

Date	Time	Matrix	Sample Name
4/18/23	10:15		
4/18/23	1900		

Turn-Around Time:

☒ Standard ☒ Rush 5 day

Project Name:

East Pecos Pipeline

Project #:

22E-03982

Project Manager:

Monica Peppin

Sampler: MSR/mw/AK

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CFI): 5.8 to 0.1 = 5.7°C

Container Type and #

Preservative Type

HEAL No.

2361135

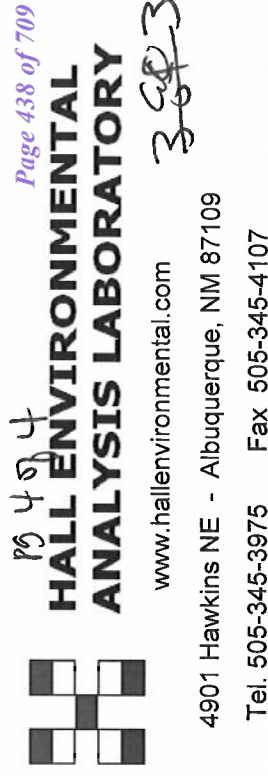
Received by: Monica Date: 4/18/23 Time: 1015

Via: air

Received by: Monica Date: 4/18/23 Time: 7:10

Via: air

1723



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

Remarks:

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



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

January 17, 2023

Monica Peppin

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: East Pecos Spill

OrderNo.: 2301226

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 31 sample(s) on 1/6/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-80 0'

Project: East Pecos Spill

Collection Date: 1/4/2023 10:00:00 AM

Lab ID: 2301226-001

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/11/2023 5:18:17 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/11/2023 5:18:17 PM
Surr: DNOP	121	21-129		%Rec	1	1/11/2023 5:18:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 11:15:00 PM
Surr: BFB	106	37.7-212		%Rec	1	1/11/2023 11:15:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/11/2023 11:15:00 PM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 11:15:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 11:15:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/11/2023 11:15:00 PM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/11/2023 11:15:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 9:04:59 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-80 2'

Project: East Pecos Spill

Collection Date: 1/4/2023 10:05:00 AM

Lab ID: 2301226-002

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/11/2023 5:39:45 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/11/2023 5:39:45 PM
Surr: DNOP	136	21-129	S	%Rec	1	1/11/2023 5:39:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2023 11:54:00 PM
Surr: BFB	104	37.7-212		%Rec	1	1/11/2023 11:54:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/11/2023 11:54:00 PM
Toluene	ND	0.050		mg/Kg	1	1/11/2023 11:54:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2023 11:54:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/11/2023 11:54:00 PM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	1/11/2023 11:54:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 9:42:02 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-80 4'

Project: East Pecos Spill

Collection Date: 1/4/2023 10:10:00 AM

Lab ID: 2301226-003

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/11/2023 5:50:31 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/11/2023 5:50:31 PM
Surr: DNOP	143	21-129	S	%Rec	1	1/11/2023 5:50:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2023 12:13:00 AM
Surr: BFB	104	37.7-212		%Rec	1	1/12/2023 12:13:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/12/2023 12:13:00 AM
Toluene	ND	0.049		mg/Kg	1	1/12/2023 12:13:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2023 12:13:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/12/2023 12:13:00 AM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/12/2023 12:13:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 10:43:44 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-81 0'

Project: East Pecos Spill

Collection Date: 1/4/2023 10:15:00 AM

Lab ID: 2301226-004

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/11/2023 6:01:14 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/11/2023 6:01:14 PM
Surr: DNOP	96.5	21-129		%Rec	1	1/11/2023 6:01:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2023 12:33:00 AM
Surr: BFB	105	37.7-212		%Rec	1	1/12/2023 12:33:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/12/2023 12:33:00 AM
Toluene	ND	0.050		mg/Kg	1	1/12/2023 12:33:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2023 12:33:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2023 12:33:00 AM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/12/2023 12:33:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 10:56:05 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-81 2'

Project: East Pecos Spill

Collection Date: 1/4/2023 10:20:00 AM

Lab ID: 2301226-005

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/11/2023 6:11:54 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/11/2023 6:11:54 PM
Surr: DNOP	124	21-129		%Rec	1	1/11/2023 6:11:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2023 12:52:00 AM
Surr: BFB	99.4	37.7-212		%Rec	1	1/12/2023 12:52:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/12/2023 12:52:00 AM
Toluene	ND	0.049		mg/Kg	1	1/12/2023 12:52:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2023 12:52:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2023 12:52:00 AM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/12/2023 12:52:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 11:08:26 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-81 4'

Project: East Pecos Spill

Collection Date: 1/4/2023 10:25:00 AM

Lab ID: 2301226-006

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/11/2023 6:22:31 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/11/2023 6:22:31 PM
Surr: DNOP	120	21-129		%Rec	1	1/11/2023 6:22:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2023 1:12:00 AM
Surr: BFB	102	37.7-212		%Rec	1	1/12/2023 1:12:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/12/2023 1:12:00 AM
Toluene	ND	0.050		mg/Kg	1	1/12/2023 1:12:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2023 1:12:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2023 1:12:00 AM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/12/2023 1:12:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 11:20:45 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-82 0'

Project: East Pecos Spill

Collection Date: 1/4/2023 10:30:00 AM

Lab ID: 2301226-007

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	1/11/2023 6:33:07 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	1/11/2023 6:33:07 PM
Surr: DNOP	146	21-129	S	%Rec	1	1/11/2023 6:33:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2023 1:31:00 AM
Surr: BFB	102	37.7-212		%Rec	1	1/12/2023 1:31:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/12/2023 1:31:00 AM
Toluene	ND	0.049		mg/Kg	1	1/12/2023 1:31:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2023 1:31:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2023 1:31:00 AM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/12/2023 1:31:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 11:33:06 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-82 2'

Project: East Pecos Spill

Collection Date: 1/4/2023 10:35:00 AM

Lab ID: 2301226-008

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/11/2023 6:43:41 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/11/2023 6:43:41 PM
Surr: DNOP	127	21-129		%Rec	1	1/11/2023 6:43:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2023 1:51:00 AM
Surr: BFB	103	37.7-212		%Rec	1	1/12/2023 1:51:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/12/2023 1:51:00 AM
Toluene	ND	0.049		mg/Kg	1	1/12/2023 1:51:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2023 1:51:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/12/2023 1:51:00 AM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/12/2023 1:51:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 11:45:26 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-82 4'

Project: East Pecos Spill

Collection Date: 1/4/2023 10:40:00 AM

Lab ID: 2301226-009

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/11/2023 6:54:14 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/11/2023 6:54:14 PM
Surr: DNOP	131	21-129	S	%Rec	1	1/11/2023 6:54:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2023 2:11:00 AM
Surr: BFB	100	37.7-212		%Rec	1	1/12/2023 2:11:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/12/2023 2:11:00 AM
Toluene	ND	0.050		mg/Kg	1	1/12/2023 2:11:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2023 2:11:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2023 2:11:00 AM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/12/2023 2:11:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 11:57:46 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-83 0'

Project: East Pecos Spill

Collection Date: 1/4/2023 10:45:00 AM

Lab ID: 2301226-010

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/11/2023 7:04:45 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/11/2023 7:04:45 PM
Surr: DNOP	148	21-129	S	%Rec	1	1/11/2023 7:04:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2023 2:30:00 AM
Surr: BFB	101	37.7-212		%Rec	1	1/12/2023 2:30:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/12/2023 2:30:00 AM
Toluene	ND	0.049		mg/Kg	1	1/12/2023 2:30:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2023 2:30:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/12/2023 2:30:00 AM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/12/2023 2:30:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 12:10:07 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-83 2'

Project: East Pecos Spill

Collection Date: 1/4/2023 10:50:00 AM

Lab ID: 2301226-011

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/11/2023 7:15:16 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/11/2023 7:15:16 PM
Surr: DNOP	150	21-129	S	%Rec	1	1/11/2023 7:15:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2023 2:50:00 AM
Surr: BFB	103	37.7-212		%Rec	1	1/12/2023 2:50:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/12/2023 2:50:00 AM
Toluene	ND	0.050		mg/Kg	1	1/12/2023 2:50:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2023 2:50:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/12/2023 2:50:00 AM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/12/2023 2:50:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 12:22:28 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-83 4'

Project: East Pecos Spill

Collection Date: 1/4/2023 10:55:00 AM

Lab ID: 2301226-012

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/11/2023 7:25:44 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/11/2023 7:25:44 PM
Surr: DNOP	134	21-129	S	%Rec	1	1/11/2023 7:25:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2023 3:48:00 AM
Surr: BFB	101	37.7-212		%Rec	1	1/12/2023 3:48:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/12/2023 3:48:00 AM
Toluene	ND	0.050		mg/Kg	1	1/12/2023 3:48:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2023 3:48:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/12/2023 3:48:00 AM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/12/2023 3:48:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 12:34:48 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-84 0'

Project: East Pecos Spill

Collection Date: 1/4/2023 11:00:00 AM

Lab ID: 2301226-013

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/12/2023 11:14:10 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2023 11:14:10 AM
Surr: DNOP	131	69-147		%Rec	1	1/12/2023 11:14:10 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 1:11:50 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	1/11/2023 3:25:54 AM
Toluene	ND	0.048		mg/Kg	1	1/11/2023 3:25:54 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/11/2023 3:25:54 AM
Xylenes, Total	ND	0.096		mg/Kg	1	1/11/2023 3:25:54 AM
Surr: 1,2-Dichloroethane-d4	91.6	70-130		%Rec	1	1/11/2023 3:25:54 AM
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	1/11/2023 3:25:54 AM
Surr: Dibromofluoromethane	104	70-130		%Rec	1	1/11/2023 3:25:54 AM
Surr: Toluene-d8	90.1	70-130		%Rec	1	1/11/2023 3:25:54 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/11/2023 3:25:54 AM
Surr: BFB	98.9	70-130		%Rec	1	1/11/2023 3:25:54 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-84 2'

Project: East Pecos Spill

Collection Date: 1/4/2023 11:05:00 AM

Lab ID: 2301226-014

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/12/2023 11:24:45 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/12/2023 11:24:45 AM
Surr: DNOP	84.3	69-147		%Rec	1	1/12/2023 11:24:45 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 1:24:11 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	1/11/2023 3:52:56 AM
Toluene	ND	0.046		mg/Kg	1	1/11/2023 3:52:56 AM
Ethylbenzene	ND	0.046		mg/Kg	1	1/11/2023 3:52:56 AM
Xylenes, Total	ND	0.092		mg/Kg	1	1/11/2023 3:52:56 AM
Surr: 1,2-Dichloroethane-d4	94.7	70-130		%Rec	1	1/11/2023 3:52:56 AM
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	1/11/2023 3:52:56 AM
Surr: Dibromofluoromethane	97.7	70-130		%Rec	1	1/11/2023 3:52:56 AM
Surr: Toluene-d8	92.4	70-130		%Rec	1	1/11/2023 3:52:56 AM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/11/2023 3:52:56 AM
Surr: BFB	96.3	70-130		%Rec	1	1/11/2023 3:52:56 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-84 4'

Project: East Pecos Spill

Collection Date: 1/4/2023 11:10:00 AM

Lab ID: 2301226-015

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/12/2023 11:35:18 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/12/2023 11:35:18 AM
Surr: DNOP	137	69-147		%Rec	1	1/12/2023 11:35:18 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 1:36:32 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	1/11/2023 4:02:42 PM
Toluene	ND	0.046		mg/Kg	1	1/11/2023 4:02:42 PM
Ethylbenzene	ND	0.046		mg/Kg	1	1/11/2023 4:02:42 PM
Xylenes, Total	ND	0.091		mg/Kg	1	1/11/2023 4:02:42 PM
Surr: 1,2-Dichloroethane-d4	91.6	70-130		%Rec	1	1/11/2023 4:02:42 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	1/11/2023 4:02:42 PM
Surr: Dibromofluoromethane	95.7	70-130		%Rec	1	1/11/2023 4:02:42 PM
Surr: Toluene-d8	92.6	70-130		%Rec	1	1/11/2023 4:02:42 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/11/2023 4:02:42 PM
Surr: BFB	101	70-130		%Rec	1	1/11/2023 4:02:42 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-85 0'

Project: East Pecos Spill

Collection Date: 1/4/2023 11:15:00 AM

Lab ID: 2301226-016

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	1/12/2023 11:45:52 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/12/2023 11:45:52 AM
Surr: DNOP	110	69-147		%Rec	1	1/12/2023 11:45:52 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 1:48:53 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	1/11/2023 4:29:50 PM
Toluene	ND	0.046		mg/Kg	1	1/11/2023 4:29:50 PM
Ethylbenzene	ND	0.046		mg/Kg	1	1/11/2023 4:29:50 PM
Xylenes, Total	ND	0.091		mg/Kg	1	1/11/2023 4:29:50 PM
Surr: 1,2-Dichloroethane-d4	87.4	70-130		%Rec	1	1/11/2023 4:29:50 PM
Surr: 4-Bromofluorobenzene	91.4	70-130		%Rec	1	1/11/2023 4:29:50 PM
Surr: Dibromofluoromethane	95.2	70-130		%Rec	1	1/11/2023 4:29:50 PM
Surr: Toluene-d8	92.9	70-130		%Rec	1	1/11/2023 4:29:50 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/11/2023 4:29:50 PM
Surr: BFB	94.1	70-130		%Rec	1	1/11/2023 4:29:50 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-85 2'

Project: East Pecos Spill

Collection Date: 1/4/2023 11:20:00 AM

Lab ID: 2301226-017

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/12/2023 11:56:28 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/12/2023 11:56:28 AM
Surr: DNOP	107	69-147		%Rec	1	1/12/2023 11:56:28 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 2:01:12 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	1/11/2023 4:57:00 PM
Toluene	ND	0.048		mg/Kg	1	1/11/2023 4:57:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/11/2023 4:57:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/11/2023 4:57:00 PM
Surr: 1,2-Dichloroethane-d4	99.4	70-130		%Rec	1	1/11/2023 4:57:00 PM
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	1/11/2023 4:57:00 PM
Surr: Dibromofluoromethane	98.9	70-130		%Rec	1	1/11/2023 4:57:00 PM
Surr: Toluene-d8	88.7	70-130		%Rec	1	1/11/2023 4:57:00 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/11/2023 4:57:00 PM
Surr: BFB	101	70-130		%Rec	1	1/11/2023 4:57:00 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-85 4'

Project: East Pecos Spill

Collection Date: 1/4/2023 11:25:00 AM

Lab ID: 2301226-018

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/12/2023 12:29:55 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/12/2023 12:29:55 PM
Surr: DNOP	134	69-147		%Rec	1	1/12/2023 12:29:55 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1600	60		mg/Kg	20	1/11/2023 2:13:33 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	1/11/2023 5:24:05 PM
Toluene	ND	0.046		mg/Kg	1	1/11/2023 5:24:05 PM
Ethylbenzene	ND	0.046		mg/Kg	1	1/11/2023 5:24:05 PM
Xylenes, Total	ND	0.093		mg/Kg	1	1/11/2023 5:24:05 PM
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	1/11/2023 5:24:05 PM
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	1/11/2023 5:24:05 PM
Surr: Dibromofluoromethane	101	70-130		%Rec	1	1/11/2023 5:24:05 PM
Surr: Toluene-d8	87.1	70-130		%Rec	1	1/11/2023 5:24:05 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/11/2023 5:24:05 PM
Surr: BFB	92.9	70-130		%Rec	1	1/11/2023 5:24:05 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-104 0'

Project: East Pecos Spill

Collection Date: 1/4/2023 1:00:00 PM

Lab ID: 2301226-019

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/12/2023 12:40:29 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/12/2023 12:40:29 PM
Surr: DNOP	130	69-147		%Rec	1	1/12/2023 12:40:29 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	380	60		mg/Kg	20	1/11/2023 2:25:54 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	1/11/2023 5:51:09 PM
Toluene	ND	0.048		mg/Kg	1	1/11/2023 5:51:09 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/11/2023 5:51:09 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/11/2023 5:51:09 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	1/11/2023 5:51:09 PM
Surr: 4-Bromofluorobenzene	96.4	70-130		%Rec	1	1/11/2023 5:51:09 PM
Surr: Dibromofluoromethane	102	70-130		%Rec	1	1/11/2023 5:51:09 PM
Surr: Toluene-d8	93.1	70-130		%Rec	1	1/11/2023 5:51:09 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/11/2023 5:51:09 PM
Surr: BFB	99.9	70-130		%Rec	1	1/11/2023 5:51:09 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-104 2'

Project: East Pecos Spill

Collection Date: 1/4/2023 1:05:00 PM

Lab ID: 2301226-020

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	1/12/2023 12:51:07 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/12/2023 12:51:07 PM
Surr: DNOP	118	69-147		%Rec	1	1/12/2023 12:51:07 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	250	60		mg/Kg	20	1/11/2023 2:38:14 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	1/11/2023 6:18:16 PM
Toluene	ND	0.048		mg/Kg	1	1/11/2023 6:18:16 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/11/2023 6:18:16 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/11/2023 6:18:16 PM
Surr: 1,2-Dichloroethane-d4	91.5	70-130		%Rec	1	1/11/2023 6:18:16 PM
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	1/11/2023 6:18:16 PM
Surr: Dibromofluoromethane	94.7	70-130		%Rec	1	1/11/2023 6:18:16 PM
Surr: Toluene-d8	89.4	70-130		%Rec	1	1/11/2023 6:18:16 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/11/2023 6:18:16 PM
Surr: BFB	98.1	70-130		%Rec	1	1/11/2023 6:18:16 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-104 4'

Project: East Pecos Spill

Collection Date: 1/4/2023 1:10:00 PM

Lab ID: 2301226-021

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/12/2023 1:22:58 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/12/2023 1:22:58 PM
Surr: DNOP	126	69-147		%Rec	1	1/12/2023 1:22:58 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 2:50:35 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	1/11/2023 6:45:22 PM
Toluene	ND	0.048		mg/Kg	1	1/11/2023 6:45:22 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/11/2023 6:45:22 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/11/2023 6:45:22 PM
Surr: 1,2-Dichloroethane-d4	77.0	70-130		%Rec	1	1/11/2023 6:45:22 PM
Surr: 4-Bromofluorobenzene	88.7	70-130		%Rec	1	1/11/2023 6:45:22 PM
Surr: Dibromofluoromethane	94.7	70-130		%Rec	1	1/11/2023 6:45:22 PM
Surr: Toluene-d8	93.4	70-130		%Rec	1	1/11/2023 6:45:22 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/11/2023 6:45:22 PM
Surr: BFB	92.8	70-130		%Rec	1	1/11/2023 6:45:22 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-105 0'

Project: East Pecos Spill

Collection Date: 1/4/2023 1:15:00 PM

Lab ID: 2301226-022

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	1/12/2023 1:33:37 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/12/2023 1:33:37 PM
Surr: DNOP	186	69-147	S	%Rec	1	1/12/2023 1:33:37 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1100	60		mg/Kg	20	1/11/2023 3:52:19 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	1/11/2023 7:12:25 PM
Toluene	ND	0.046		mg/Kg	1	1/11/2023 7:12:25 PM
Ethylbenzene	ND	0.046		mg/Kg	1	1/11/2023 7:12:25 PM
Xylenes, Total	ND	0.092		mg/Kg	1	1/11/2023 7:12:25 PM
Surr: 1,2-Dichloroethane-d4	91.4	70-130		%Rec	1	1/11/2023 7:12:25 PM
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	1/11/2023 7:12:25 PM
Surr: Dibromofluoromethane	97.6	70-130		%Rec	1	1/11/2023 7:12:25 PM
Surr: Toluene-d8	92.7	70-130		%Rec	1	1/11/2023 7:12:25 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/11/2023 7:12:25 PM
Surr: BFB	98.6	70-130		%Rec	1	1/11/2023 7:12:25 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-105 2'

Project: East Pecos Spill

Collection Date: 1/4/2023 1:20:00 PM

Lab ID: 2301226-023

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/12/2023 1:44:18 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/12/2023 1:44:18 PM
Surr: DNOP	143	69-147		%Rec	1	1/12/2023 1:44:18 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	100	60		mg/Kg	20	1/11/2023 4:29:20 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	1/11/2023 7:39:25 PM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 7:39:25 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 7:39:25 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/11/2023 7:39:25 PM
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	1/11/2023 7:39:25 PM
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	1/11/2023 7:39:25 PM
Surr: Dibromofluoromethane	100	70-130		%Rec	1	1/11/2023 7:39:25 PM
Surr: Toluene-d8	86.4	70-130		%Rec	1	1/11/2023 7:39:25 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 7:39:25 PM
Surr: BFB	92.2	70-130		%Rec	1	1/11/2023 7:39:25 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-105 4'

Project: East Pecos Spill

Collection Date: 1/4/2023 1:25:00 PM

Lab ID: 2301226-024

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/12/2023 1:54:58 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/12/2023 1:54:58 PM
Surr: DNOP	125	69-147		%Rec	1	1/12/2023 1:54:58 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	200	59		mg/Kg	20	1/11/2023 4:41:41 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	1/11/2023 8:06:26 PM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 8:06:26 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 8:06:26 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/11/2023 8:06:26 PM
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	1/11/2023 8:06:26 PM
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	1/11/2023 8:06:26 PM
Surr: Dibromofluoromethane	96.2	70-130		%Rec	1	1/11/2023 8:06:26 PM
Surr: Toluene-d8	89.8	70-130		%Rec	1	1/11/2023 8:06:26 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 8:06:26 PM
Surr: BFB	98.9	70-130		%Rec	1	1/11/2023 8:06:26 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-106 0'

Project: East Pecos Spill

Collection Date: 1/4/2023 1:30:00 PM

Lab ID: 2301226-025

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	1/12/2023 2:05:46 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/12/2023 2:05:46 PM
Surr: DNOP	124	69-147		%Rec	1	1/12/2023 2:05:46 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1600	60		mg/Kg	20	1/11/2023 4:54:02 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	1/11/2023 8:33:26 PM
Toluene	ND	0.046		mg/Kg	1	1/11/2023 8:33:26 PM
Ethylbenzene	ND	0.046		mg/Kg	1	1/11/2023 8:33:26 PM
Xylenes, Total	ND	0.092		mg/Kg	1	1/11/2023 8:33:26 PM
Surr: 1,2-Dichloroethane-d4	97.6	70-130		%Rec	1	1/11/2023 8:33:26 PM
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	1/11/2023 8:33:26 PM
Surr: Dibromofluoromethane	95.6	70-130		%Rec	1	1/11/2023 8:33:26 PM
Surr: Toluene-d8	86.9	70-130		%Rec	1	1/11/2023 8:33:26 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/11/2023 8:33:26 PM
Surr: BFB	96.4	70-130		%Rec	1	1/11/2023 8:33:26 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-106 2'

Project: East Pecos Spill

Collection Date: 1/4/2023 1:35:00 PM

Lab ID: 2301226-026

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/12/2023 2:16:32 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/12/2023 2:16:32 PM
Surr: DNOP	112	69-147		%Rec	1	1/12/2023 2:16:32 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	230	60		mg/Kg	20	1/11/2023 5:06:23 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	1/11/2023 9:00:26 PM
Toluene	ND	0.046		mg/Kg	1	1/11/2023 9:00:26 PM
Ethylbenzene	ND	0.046		mg/Kg	1	1/11/2023 9:00:26 PM
Xylenes, Total	ND	0.092		mg/Kg	1	1/11/2023 9:00:26 PM
Surr: 1,2-Dichloroethane-d4	92.9	70-130		%Rec	1	1/11/2023 9:00:26 PM
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	1/11/2023 9:00:26 PM
Surr: Dibromofluoromethane	98.4	70-130		%Rec	1	1/11/2023 9:00:26 PM
Surr: Toluene-d8	88.2	70-130		%Rec	1	1/11/2023 9:00:26 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/11/2023 9:00:26 PM
Surr: BFB	96.5	70-130		%Rec	1	1/11/2023 9:00:26 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-106 4'

Project: East Pecos Spill

Collection Date: 1/4/2023 1:40:00 PM

Lab ID: 2301226-027

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/12/2023 2:27:21 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/12/2023 2:27:21 PM
Surr: DNOP	117	69-147		%Rec	1	1/12/2023 2:27:21 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	84	60		mg/Kg	20	1/11/2023 5:18:44 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	1/11/2023 9:27:28 PM
Toluene	ND	0.048		mg/Kg	1	1/11/2023 9:27:28 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/11/2023 9:27:28 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/11/2023 9:27:28 PM
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	1/11/2023 9:27:28 PM
Surr: 4-Bromofluorobenzene	95.0	70-130		%Rec	1	1/11/2023 9:27:28 PM
Surr: Dibromofluoromethane	97.3	70-130		%Rec	1	1/11/2023 9:27:28 PM
Surr: Toluene-d8	88.1	70-130		%Rec	1	1/11/2023 9:27:28 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/11/2023 9:27:28 PM
Surr: BFB	91.6	70-130		%Rec	1	1/11/2023 9:27:28 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-107 0'

Project: East Pecos Spill

Collection Date: 1/4/2023 1:45:00 PM

Lab ID: 2301226-028

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	1/12/2023 2:38:07 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	1/12/2023 2:38:07 PM
Surr: DNOP	131	69-147		%Rec	1	1/12/2023 2:38:07 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 5:55:47 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	1/11/2023 9:54:27 PM
Toluene	ND	0.047		mg/Kg	1	1/11/2023 9:54:27 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/11/2023 9:54:27 PM
Xylenes, Total	ND	0.094		mg/Kg	1	1/11/2023 9:54:27 PM
Surr: 1,2-Dichloroethane-d4	94.6	70-130		%Rec	1	1/11/2023 9:54:27 PM
Surr: 4-Bromofluorobenzene	94.4	70-130		%Rec	1	1/11/2023 9:54:27 PM
Surr: Dibromofluoromethane	99.4	70-130		%Rec	1	1/11/2023 9:54:27 PM
Surr: Toluene-d8	92.5	70-130		%Rec	1	1/11/2023 9:54:27 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/11/2023 9:54:27 PM
Surr: BFB	94.9	70-130		%Rec	1	1/11/2023 9:54:27 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-107 2'

Project: East Pecos Spill

Collection Date: 1/4/2023 1:50:00 PM

Lab ID: 2301226-029

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/12/2023 2:48:53 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/12/2023 2:48:53 PM
Surr: DNOP	121	69-147		%Rec	1	1/12/2023 2:48:53 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	560	60		mg/Kg	20	1/11/2023 6:08:08 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	1/11/2023 10:21:23 PM
Toluene	ND	0.047		mg/Kg	1	1/11/2023 10:21:23 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/11/2023 10:21:23 PM
Xylenes, Total	ND	0.095		mg/Kg	1	1/11/2023 10:21:23 PM
Surr: 1,2-Dichloroethane-d4	85.9	70-130		%Rec	1	1/11/2023 10:21:23 PM
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	1/11/2023 10:21:23 PM
Surr: Dibromofluoromethane	95.9	70-130		%Rec	1	1/11/2023 10:21:23 PM
Surr: Toluene-d8	93.2	70-130		%Rec	1	1/11/2023 10:21:23 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/11/2023 10:21:23 PM
Surr: BFB	98.9	70-130		%Rec	1	1/11/2023 10:21:23 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-107 4'

Project: East Pecos Spill

Collection Date: 1/4/2023 1:55:00 PM

Lab ID: 2301226-030

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/11/2023 8:17:52 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/11/2023 8:17:52 PM
Surr: DNOP	109	21-129		%Rec	1	1/11/2023 8:17:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2023 4:08:00 AM
Surr: BFB	104	37.7-212		%Rec	1	1/12/2023 4:08:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/12/2023 4:08:00 AM
Toluene	ND	0.050		mg/Kg	1	1/12/2023 4:08:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2023 4:08:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/12/2023 4:08:00 AM
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	1	1/12/2023 4:08:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	180	60		mg/Kg	20	1/11/2023 6:20:27 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301226

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-96 0'

Project: East Pecos Spill

Collection Date: 1/4/2023 2:25:00 PM

Lab ID: 2301226-031

Matrix: SOIL

Received Date: 1/6/2023 7:45:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	1/11/2023 8:49:34 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/11/2023 8:49:34 PM
Surr: DNOP	131	21-129	S	%Rec	1	1/11/2023 8:49:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/12/2023 5:06:00 AM
Surr: BFB	102	37.7-212		%Rec	1	1/12/2023 5:06:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/12/2023 5:06:00 AM
Toluene	ND	0.048		mg/Kg	1	1/12/2023 5:06:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/12/2023 5:06:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	1/12/2023 5:06:00 AM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/12/2023 5:06:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	59		mg/Kg	20	1/11/2023 6:32:48 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301226

17-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Spill

Sample ID: MB-72563	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72563	RunNo: 93913								
Prep Date: 1/10/2023	Analysis Date: 1/11/2023	SeqNo: 3390385 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72563	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72563	RunNo: 93913								
Prep Date: 1/10/2023	Analysis Date: 1/11/2023	SeqNo: 3390386 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	16	1.5	15.00	0	108	90	110			

Sample ID: MB-72564	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72564	RunNo: 93913								
Prep Date: 1/10/2023	Analysis Date: 1/11/2023	SeqNo: 3390387 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72564	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72564	RunNo: 93913								
Prep Date: 1/10/2023	Analysis Date: 1/11/2023	SeqNo: 3390388 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.1	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301226

17-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Spill

Sample ID: LCS-72541	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 72541		RunNo: 93869							
Prep Date: 1/10/2023	Analysis Date: 1/11/2023		SeqNo: 3388577		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.0	64.4	127			
Surr: DNOP	5.7		5.000		113	21	129			

Sample ID: MB-72541	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 72541		RunNo: 93869							
Prep Date: 1/10/2023	Analysis Date: 1/11/2023		SeqNo: 3388580		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		117	21	129			

Sample ID: 2301226-030AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH22-107 4'	Batch ID: 72541		RunNo: 93869							
Prep Date: 1/10/2023	Analysis Date: 1/11/2023		SeqNo: 3390145		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	9.2	46.13	0	83.3	36.1	154			
Surr: DNOP	5.2		4.613		112	21	129			

Sample ID: 2301226-030AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH22-107 4'	Batch ID: 72541		RunNo: 93869							
Prep Date: 1/10/2023	Analysis Date: 1/11/2023		SeqNo: 3390146		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.0	36.1	154	10.2	33.9	
Surr: DNOP	5.8		5.000		116	21	129	0	0	

Sample ID: LCS-72554	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 72554		RunNo: 93869							
Prep Date: 1/10/2023	Analysis Date: 1/11/2023		SeqNo: 3390204		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.8	64.4	127			
Surr: DNOP	6.4		5.000		128	21	129			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301226

17-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Spill

Sample ID: MB-72554	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72554	RunNo: 93869								
Prep Date: 1/10/2023	Analysis Date: 1/11/2023	SeqNo: 3390206 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		116	21	129			

Sample ID: LCS-72579	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72579	RunNo: 93911								
Prep Date: 1/11/2023	Analysis Date: 1/12/2023	SeqNo: 3390352 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.4	64.4	127			
Surr: DNOP	5.4		5.000		108	69	147			

Sample ID: LCS-72585	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72585	RunNo: 93911								
Prep Date: 1/12/2023	Analysis Date: 1/12/2023	SeqNo: 3390353 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.6		5.000		111	69	147			

Sample ID: MB-72579	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72579	RunNo: 93911								
Prep Date: 1/11/2023	Analysis Date: 1/12/2023	SeqNo: 3390354 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		110	69	147			

Sample ID: MB-72585	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72585	RunNo: 93911								
Prep Date: 1/12/2023	Analysis Date: 1/12/2023	SeqNo: 3390355 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		106	69	147			

Sample ID: 2301226-029AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-107 2'	Batch ID: 72579	RunNo: 93911								
Prep Date: 1/11/2023	Analysis Date: 1/12/2023	SeqNo: 3391652 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301226

17-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Spill

Sample ID: 2301226-029AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-107 2'	Batch ID: 72579	RunNo: 93911								
Prep Date: 1/11/2023	Analysis Date: 1/12/2023	SeqNo: 3391652	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.6	48.08	0	90.7	54.2	135			
Surr: DNOP	6.1		4.808		126	69	147			

Sample ID: 2301226-029AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-107 2'	Batch ID: 72579	RunNo: 93911								
Prep Date: 1/11/2023	Analysis Date: 1/12/2023	SeqNo: 3391653	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	49.85	0	80.3	54.2	135	8.51	33.9	
Surr: DNOP	5.7		4.985		115	69	147	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301226

17-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Spill

Sample ID: lcs-72532	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 72532				RunNo: 93873					
Prep Date: 1/10/2023	Analysis Date: 1/11/2023				SeqNo: 3389575	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.8	72.3	137			
Surr: BFB	2200		1000		222	37.7	212			S

Sample ID: mb-72532	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 72532				RunNo: 93873					
Prep Date: 1/10/2023	Analysis Date: 1/11/2023				SeqNo: 3389576	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		110	37.7	212			

Sample ID: lcs-72506	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 72506				RunNo: 93873					
Prep Date: 1/6/2023	Analysis Date: 1/11/2023				SeqNo: 3389589	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.5	72.3	137			
Surr: BFB	2300		1000		230	37.7	212			S

Sample ID: mb-72506	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 72506				RunNo: 93873					
Prep Date: 1/6/2023	Analysis Date: 1/11/2023				SeqNo: 3389590	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	37.7	212			

Sample ID: 2301226-030ams	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH22-107 4'	Batch ID: 72532				RunNo: 93873					
Prep Date: 1/10/2023	Analysis Date: 1/12/2023				SeqNo: 3389614	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.70	0	101	70	130			
Surr: BFB	2300		988.1		230	37.7	212			S

Sample ID: 2301226-030amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH22-107 4'	Batch ID: 72532				RunNo: 93873					
Prep Date: 1/10/2023	Analysis Date: 1/12/2023				SeqNo: 3389615	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301226

17-Jan-23

Client: Vertex Resources Services, Inc.

Project: East Pecos Spill

Sample ID: 2301226-030amsd		SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH22-107 4'		Batch ID: 72532			RunNo: 93873					
Prep Date: 1/10/2023		Analysis Date: 1/12/2023			SeqNo: 3389615		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.65	0	94.4	70	130	6.99	20	
Surr: BFB	2100		986.2		216	37.7	212	0	0	S

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of standard limits. If undiluted results may be estimated.
- B

Analyte detected in the associated Method Blank
- E

Above Quantitation Range/Estimated Value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301226

17-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Spill

Sample ID: ics-72532	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72532		RunNo: 93873							
Prep Date: 1/10/2023	Analysis Date: 1/11/2023		SeqNo: 3389628		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	116	80	120			
Toluene	1.2	0.050	1.000	0	116	80	120			
Ethylbenzene	1.2	0.050	1.000	0	116	80	120			
Xylenes, Total	3.5	0.10	3.000	0	116	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		125	70	130			

Sample ID: mb-72532	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72532		RunNo: 93873							
Prep Date: 1/10/2023	Analysis Date: 1/11/2023		SeqNo: 3389629		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.3		1.000		126	70	130			

Sample ID: ics-72506	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72506		RunNo: 93873							
Prep Date: 1/6/2023	Analysis Date: 1/11/2023		SeqNo: 3389642		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	111	80	120			
Toluene	1.1	0.050	1.000	0	114	80	120			
Ethylbenzene	1.2	0.050	1.000	0	116	80	120			
Xylenes, Total	3.5	0.10	3.000	0	116	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		121	70	130			

Sample ID: mb-72506	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72506		RunNo: 93873							
Prep Date: 1/6/2023	Analysis Date: 1/11/2023		SeqNo: 3389643		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		122	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301226

17-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Spill

Sample ID: 2301226-031ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-96 0'	Batch ID: 72532	RunNo: 93873								
Prep Date: 1/10/2023	Analysis Date: 1/12/2023	SeqNo: 3389668	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.024	0.9625	0	121	68.8	120			S
Toluene	1.2	0.048	0.9625	0	122	73.6	124			
Ethylbenzene	1.2	0.048	0.9625	0	122	72.7	129			
Xylenes, Total	3.5	0.096	2.887	0	122	75.7	126			
Surr: 4-Bromofluorobenzene	1.2		0.9625		124	70	130			

Sample ID: 2301226-031amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-96 0'	Batch ID: 72532	RunNo: 93873								
Prep Date: 1/10/2023	Analysis Date: 1/12/2023	SeqNo: 3389669	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.024	0.9728	0	121	68.8	120	1.42	20	S
Toluene	1.2	0.049	0.9728	0	123	73.6	124	1.59	20	
Ethylbenzene	1.2	0.049	0.9728	0	122	72.7	129	1.34	20	
Xylenes, Total	3.6	0.097	2.918	0	122	75.7	126	1.67	20	
Surr: 4-Bromofluorobenzene	1.2		0.9728		122	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301226

17-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Spill

Sample ID: 2301226-013ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BH22-84 0'	Batch ID: 72526	RunNo: 93872								
Prep Date: 1/9/2023	Analysis Date: 1/11/2023	SeqNo: 3388645	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9690	0	97.9	75.8	123			
Toluene	0.95	0.048	0.9690	0	97.7	68.3	130			
Ethylbenzene	1.0	0.048	0.9690	0	104	76.6	132			
Xylenes, Total	3.1	0.097	2.907	0	106	74.7	132			
Surr: 1,2-Dichloroethane-d4	0.40		0.4845		82.0	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.4845		100	70	130			
Surr: Dibromofluoromethane	0.47		0.4845		97.5	70	130			
Surr: Toluene-d8	0.44		0.4845		91.6	70	130			

Sample ID: 2301226-013amsd	SampType: MSD4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BH22-84 0'	Batch ID: 72526	RunNo: 93872								
Prep Date: 1/9/2023	Analysis Date: 1/11/2023	SeqNo: 3388646	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9681	0	105	75.8	123	6.54	20	
Toluene	0.99	0.048	0.9681	0	102	68.3	130	3.96	20	
Ethylbenzene	1.0	0.048	0.9681	0	107	76.6	132	2.88	20	
Xylenes, Total	3.3	0.097	2.904	0	114	74.7	132	6.96	20	
Surr: 1,2-Dichloroethane-d4	0.46		0.4840		95.1	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.49		0.4840		101	70	130	0	0	
Surr: Dibromofluoromethane	0.49		0.4840		101	70	130	0	0	
Surr: Toluene-d8	0.43		0.4840		88.6	70	130	0	0	

Sample ID: LCS-72526	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 72526	RunNo: 93872								
Prep Date: 1/9/2023	Analysis Date: 1/11/2023	SeqNo: 3388648	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.5	80	120			
Toluene	0.93	0.050	1.000	0	92.8	80	120			
Ethylbenzene	0.91	0.050	1.000	0	90.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.5	80	120			
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.6	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.5	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		100	70	130			
Surr: Toluene-d8	0.46		0.5000		92.6	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301226

17-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Spill

Sample ID: mb-72526	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 72526	RunNo: 93872								
Prep Date: 1/9/2023	Analysis Date: 1/10/2023	SeqNo: 3388649	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		101	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		99.0	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		109	70	130			
Surr: Toluene-d8	0.47		0.5000		94.7	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301226

17-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Spill

Sample ID: LCS-72526	SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: 72526		RunNo: 93872							
Prep Date: 1/9/2023	Analysis Date: 1/11/2023		SeqNo: 3388641		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.1	70	130			
Surr: BFB	500		500.0		99.3	70	130			

Sample ID: mb-72526	SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: PBS	Batch ID: 72526		RunNo: 93872							
Prep Date: 1/9/2023	Analysis Date: 1/10/2023		SeqNo: 3388642		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	480		500.0		96.1	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

Sample Log-In Check List

Client Name: Vertex Resources
Services, Inc.

Work Order Number: 2301226

RcptNo: 1

Received By: Juan Rojas 1/6/2023 7:45:00 AM

Completed By: Sean Livingston 1/6/2023 8:18:38 AM

Reviewed By: TML 1/6/23

[Signature]

[Signature]

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? ☐

Checked by: JML/6/23

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.2	Good				

Chain-of-Custody Record

Client: Devon

(Vertex)

Mailing Address: On File

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard☒ Rush5 Day

Project Name:

East Pecos Spill

Project #:

22E-03982

Project Manager:

Monica Peppin

Sampler:

Hunter Klein

On Ice:

☒ Yes☐ No

of Coolers:

300gCooler Temp (including CF): 0.10-1.0-2.0 (°C)

Container Type and #

Preservative Type

HEAL No.

2301220

Type and #

Ice

001002003004005006007008009010011012013014015016017018019020021022023024025026027028029030031032033034035036037038039040041042043044045046047048049050051052053054055056057058059060061062063064065066067068069070071072073074075076077078079080081082083084085086087088089090091092093094095096097098099100101102103104105106107108109110111112113114115116117118119120121122123124125126127128129130131132133134135136137138139140141142143144145146147148149150151152153154155156157158159160161162163164165166167168169170171172173174175176177178179180181182183184185186187188189190191192193194195196197198199200201202203204205206207208209210211212213214215216217218219220221222223224225226227228229230231232233234235236237238239240241242243244245246247248249250251252253254255256257258259260261262263264265266267268269270271272273274275276277278279280281282283284285286287288289290291292293294295296

Chain-of-Custody Record

Client: Devon

(Vertex)

Mailing Address: On File

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

East Pecos Spill

Project #:

22E-03982

Project Manager:

Monica Peppin

Sampler:

Hunter KleinOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including CF): 6.40.1 = 6.2 (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Matrix

Sample Name

Date

Time

Relinquished by:

Hunter Klein

Received by:

Monica Peppin

Date

15/3 1000

Remarks:

Relinquished by:

Monica Peppin

Received by:

Monica Peppin

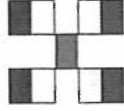
Date

15/3 1000

Remarks:

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.

Released to Imaging: 5/8/2023 11:43:26 AM

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

EPA 821 / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cd, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)



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

January 17, 2023

Monica Peppin

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: East Pecos Spill

OrderNo.: 2301272

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 24 sample(s) on 1/7/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-86 0'

Project: East Pecos Spill

Collection Date: 1/5/2023 10:00:00 AM

Lab ID: 2301272-001

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	1/11/2023 10:56:04 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/11/2023 10:56:04 PM
Surr: DNOP	93.5	21-129		%Rec	1	1/11/2023 10:56:04 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2023 1:15:00 PM
Surr: BFB	104	37.7-212		%Rec	1	1/12/2023 1:15:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/12/2023 1:15:00 PM
Toluene	ND	0.049		mg/Kg	1	1/12/2023 1:15:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2023 1:15:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/12/2023 1:15:00 PM
Surr: 4-Bromofluorobenzene	122	70-130		%Rec	1	1/12/2023 1:15:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 12:33:48 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-86 2'

Project: East Pecos Spill

Collection Date: 1/5/2023 10:05:00 AM

Lab ID: 2301272-002

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/11/2023 11:06:36 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/11/2023 11:06:36 PM
Surr: DNOP	110	21-129		%Rec	1	1/11/2023 11:06:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/12/2023 1:35:00 PM
Surr: BFB	100	37.7-212		%Rec	1	1/12/2023 1:35:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/12/2023 1:35:00 PM
Toluene	ND	0.048		mg/Kg	1	1/12/2023 1:35:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/12/2023 1:35:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/12/2023 1:35:00 PM
Surr: 4-Bromofluorobenzene	120	70-130		%Rec	1	1/12/2023 1:35:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 1:11:01 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-86 4'

Project: East Pecos Spill

Collection Date: 1/5/2023 10:10:00 AM

Lab ID: 2301272-003

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/11/2023 11:17:09 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/11/2023 11:17:09 PM
Surr: DNOP	105	21-129		%Rec	1	1/11/2023 11:17:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/12/2023 2:14:00 PM
Surr: BFB	99.9	37.7-212		%Rec	1	1/12/2023 2:14:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/12/2023 2:14:00 PM
Toluene	ND	0.048		mg/Kg	1	1/12/2023 2:14:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/12/2023 2:14:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/12/2023 2:14:00 PM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	1/12/2023 2:14:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 1:23:25 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-87 0'

Project: East Pecos Spill

Collection Date: 1/5/2023 10:15:00 AM

Lab ID: 2301272-004

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/11/2023 11:27:44 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/11/2023 11:27:44 PM
Surr: DNOP	114	21-129		%Rec	1	1/11/2023 11:27:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2023 2:34:00 PM
Surr: BFB	101	37.7-212		%Rec	1	1/12/2023 2:34:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	1/12/2023 2:34:00 PM
Toluene	ND	0.050		mg/Kg	1	1/12/2023 2:34:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2023 2:34:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/12/2023 2:34:00 PM
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	1	1/12/2023 2:34:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 1:35:49 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-87 2'

Project: East Pecos Spill

Collection Date: 1/5/2023 10:20:00 AM

Lab ID: 2301272-005

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/11/2023 11:38:19 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/11/2023 11:38:19 PM
Surr: DNOP	123	21-129		%Rec	1	1/11/2023 11:38:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/12/2023 2:54:00 PM
Surr: BFB	105	37.7-212		%Rec	1	1/12/2023 2:54:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	1/12/2023 2:54:00 PM
Toluene	ND	0.048		mg/Kg	1	1/12/2023 2:54:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/12/2023 2:54:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	1/12/2023 2:54:00 PM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	1/12/2023 2:54:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	110	60		mg/Kg	20	1/11/2023 2:13:03 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-87 4'

Project: East Pecos Spill

Collection Date: 1/5/2023 10:25:00 AM

Lab ID: 2301272-006

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/12/2023 3:52:52 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/12/2023 3:52:52 PM
Surr: DNOP	127	69-147		%Rec	1	1/12/2023 3:52:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 3:20:44 PM
Surr: BFB	100	37.7-212		%Rec	1	1/11/2023 3:20:44 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/11/2023 3:20:44 PM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 3:20:44 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 3:20:44 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/11/2023 3:20:44 PM
Surr: 4-Bromofluorobenzene	95.4	70-130		%Rec	1	1/11/2023 3:20:44 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 2:50:16 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-88 0'

Project: East Pecos Spill

Collection Date: 1/5/2023 10:30:00 AM

Lab ID: 2301272-007

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/12/2023 4:25:16 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/12/2023 4:25:16 PM
Surr: DNOP	117	69-147		%Rec	1	1/12/2023 4:25:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2023 4:31:32 PM
Surr: BFB	101	37.7-212		%Rec	1	1/11/2023 4:31:32 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/11/2023 4:31:32 PM
Toluene	ND	0.050		mg/Kg	1	1/11/2023 4:31:32 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2023 4:31:32 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/11/2023 4:31:32 PM
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	1/11/2023 4:31:32 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 3:02:40 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-88 2'

Project: East Pecos Spill

Collection Date: 1/5/2023 10:35:00 AM

Lab ID: 2301272-008

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/12/2023 4:35:57 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/12/2023 4:35:57 PM
Surr: DNOP	101	69-147		%Rec	1	1/12/2023 4:35:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 5:41:56 PM
Surr: BFB	102	37.7-212		%Rec	1	1/11/2023 5:41:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/11/2023 5:41:56 PM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 5:41:56 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 5:41:56 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/11/2023 5:41:56 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	1/11/2023 5:41:56 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 3:15:05 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-88 4'

Project: East Pecos Spill

Collection Date: 1/5/2023 10:40:00 AM

Lab ID: 2301272-009

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/12/2023 4:46:37 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/12/2023 4:46:37 PM
Surr: DNOP	103	69-147		%Rec	1	1/12/2023 4:46:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2023 6:05:27 PM
Surr: BFB	102	37.7-212		%Rec	1	1/11/2023 6:05:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/11/2023 6:05:27 PM
Toluene	ND	0.050		mg/Kg	1	1/11/2023 6:05:27 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2023 6:05:27 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2023 6:05:27 PM
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	1/11/2023 6:05:27 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 3:27:30 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-89 0'

Project: East Pecos Spill

Collection Date: 1/5/2023 10:45:00 AM

Lab ID: 2301272-010

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/12/2023 4:57:16 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2023 4:57:16 PM
Surr: DNOP	148	69-147	S	%Rec	1	1/12/2023 4:57:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/11/2023 6:28:54 PM
Surr: BFB	103	37.7-212		%Rec	1	1/11/2023 6:28:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/11/2023 6:28:54 PM
Toluene	ND	0.048		mg/Kg	1	1/11/2023 6:28:54 PM
Ethylbenzene	ND	0.048		mg/Kg	1	1/11/2023 6:28:54 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/11/2023 6:28:54 PM
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	1/11/2023 6:28:54 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	61		mg/Kg	20	1/11/2023 3:39:54 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-89 2'

Project: East Pecos Spill

Collection Date: 1/5/2023 10:50:00 AM

Lab ID: 2301272-011

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/12/2023 5:07:53 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/12/2023 5:07:53 PM
Surr: DNOP	111	69-147		%Rec	1	1/12/2023 5:07:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 6:52:28 PM
Surr: BFB	104	37.7-212		%Rec	1	1/11/2023 6:52:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/11/2023 6:52:28 PM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 6:52:28 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 6:52:28 PM
Xylenes, Total	ND	0.097		mg/Kg	1	1/11/2023 6:52:28 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	1/11/2023 6:52:28 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 3:52:18 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-89 4'

Project: East Pecos Spill

Collection Date: 1/5/2023 10:55:00 AM

Lab ID: 2301272-012

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/12/2023 5:18:30 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/12/2023 5:18:30 PM
Surr: DNOP	83.0	69-147		%Rec	1	1/12/2023 5:18:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2023 8:02:53 PM
Surr: BFB	104	37.7-212		%Rec	1	1/11/2023 8:02:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/11/2023 8:02:53 PM
Toluene	ND	0.050		mg/Kg	1	1/11/2023 8:02:53 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2023 8:02:53 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/11/2023 8:02:53 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	1/11/2023 8:02:53 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 4:04:43 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-90 0'

Project: East Pecos Spill

Collection Date: 1/5/2023 11:00:00 AM

Lab ID: 2301272-013

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/12/2023 5:29:07 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/12/2023 5:29:07 PM
Surr: DNOP	116	69-147		%Rec	1	1/12/2023 5:29:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2023 8:26:22 PM
Surr: BFB	102	37.7-212		%Rec	1	1/11/2023 8:26:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/11/2023 8:26:22 PM
Toluene	ND	0.050		mg/Kg	1	1/11/2023 8:26:22 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2023 8:26:22 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2023 8:26:22 PM
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	1/11/2023 8:26:22 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	150	60		mg/Kg	20	1/11/2023 4:41:57 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-90 2'

Project: East Pecos Spill

Collection Date: 1/5/2023 11:05:00 AM

Lab ID: 2301272-014

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/12/2023 5:50:07 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2023 5:50:07 PM
Surr: DNOP	118	69-147		%Rec	1	1/12/2023 5:50:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2023 8:49:50 PM
Surr: BFB	102	37.7-212		%Rec	1	1/11/2023 8:49:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/11/2023 8:49:50 PM
Toluene	ND	0.050		mg/Kg	1	1/11/2023 8:49:50 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2023 8:49:50 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2023 8:49:50 PM
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	1/11/2023 8:49:50 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	100	60		mg/Kg	20	1/11/2023 4:54:22 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-90 4'

Project: East Pecos Spill

Collection Date: 1/5/2023 11:10:00 AM

Lab ID: 2301272-015

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/12/2023 6:00:36 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/12/2023 6:00:36 PM
Surr: DNOP	114	69-147		%Rec	1	1/12/2023 6:00:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2023 9:13:20 PM
Surr: BFB	103	37.7-212		%Rec	1	1/11/2023 9:13:20 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/11/2023 9:13:20 PM
Toluene	ND	0.050		mg/Kg	1	1/11/2023 9:13:20 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2023 9:13:20 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/11/2023 9:13:20 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	1/11/2023 9:13:20 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	110	60		mg/Kg	20	1/11/2023 5:06:47 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-91 0'

Project: East Pecos Spill

Collection Date: 1/5/2023 11:15:00 AM

Lab ID: 2301272-016

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/12/2023 6:11:03 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/12/2023 6:11:03 PM
Surr: DNOP	133	69-147		%Rec	1	1/12/2023 6:11:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2023 9:36:45 PM
Surr: BFB	100	37.7-212		%Rec	1	1/11/2023 9:36:45 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/11/2023 9:36:45 PM
Toluene	ND	0.050		mg/Kg	1	1/11/2023 9:36:45 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2023 9:36:45 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/11/2023 9:36:45 PM
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	1/11/2023 9:36:45 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 5:19:11 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-91 2'

Project: East Pecos Spill

Collection Date: 1/5/2023 11:20:00 AM

Lab ID: 2301272-017

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/12/2023 6:21:28 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2023 6:21:28 PM
Surr: DNOP	94.8	69-147		%Rec	1	1/12/2023 6:21:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 10:00:10 PM
Surr: BFB	99.3	37.7-212		%Rec	1	1/11/2023 10:00:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/11/2023 10:00:10 PM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 10:00:10 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 10:00:10 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/11/2023 10:00:10 PM
Surr: 4-Bromofluorobenzene	97.3	70-130		%Rec	1	1/11/2023 10:00:10 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 5:31:36 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-91 4'

Project: East Pecos Spill

Collection Date: 1/5/2023 11:25:00 AM

Lab ID: 2301272-018

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/12/2023 6:31:52 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2023 6:31:52 PM
Surr: DNOP	109	69-147		%Rec	1	1/12/2023 6:31:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 10:23:32 PM
Surr: BFB	100	37.7-212		%Rec	1	1/11/2023 10:23:32 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/11/2023 10:23:32 PM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 10:23:32 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 10:23:32 PM
Xylenes, Total	ND	0.098		mg/Kg	1	1/11/2023 10:23:32 PM
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	1/11/2023 10:23:32 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 5:44:00 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-92 0'

Project: East Pecos Spill

Collection Date: 1/5/2023 11:30:00 AM

Lab ID: 2301272-019

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/12/2023 6:42:19 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2023 6:42:19 PM
Surr: DNOP	99.5	69-147		%Rec	1	1/12/2023 6:42:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 10:46:54 PM
Surr: BFB	101	37.7-212		%Rec	1	1/11/2023 10:46:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/11/2023 10:46:54 PM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 10:46:54 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 10:46:54 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2023 10:46:54 PM
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	1/11/2023 10:46:54 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 2:37:25 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-92 2'

Project: East Pecos Spill

Collection Date: 1/5/2023 11:35:00 AM

Lab ID: 2301272-020

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/12/2023 6:52:44 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/12/2023 6:52:44 PM
Surr: DNOP	109	69-147		%Rec	1	1/12/2023 6:52:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2023 11:10:19 PM
Surr: BFB	99.0	37.7-212		%Rec	1	1/11/2023 11:10:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/11/2023 11:10:19 PM
Toluene	ND	0.050		mg/Kg	1	1/11/2023 11:10:19 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2023 11:10:19 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2023 11:10:19 PM
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	1/11/2023 11:10:19 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	290	60		mg/Kg	20	1/11/2023 2:49:50 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-92 4'

Project: East Pecos Spill

Collection Date: 1/5/2023 11:40:00 AM

Lab ID: 2301272-021

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	1/12/2023 7:03:08 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/12/2023 7:03:08 PM
Surr: DNOP	97.4	69-147		%Rec	1	1/12/2023 7:03:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/11/2023 11:33:44 PM
Surr: BFB	102	37.7-212		%Rec	1	1/11/2023 11:33:44 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/11/2023 11:33:44 PM
Toluene	ND	0.050		mg/Kg	1	1/11/2023 11:33:44 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/11/2023 11:33:44 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2023 11:33:44 PM
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	1/11/2023 11:33:44 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	270	60		mg/Kg	20	1/11/2023 3:27:05 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-93 0'

Project: East Pecos Spill

Collection Date: 1/5/2023 11:45:00 AM

Lab ID: 2301272-022

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	1/12/2023 7:13:31 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2023 7:13:31 PM
Surr: DNOP	105	69-147		%Rec	1	1/12/2023 7:13:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/12/2023 12:20:23 AM
Surr: BFB	99.6	37.7-212		%Rec	1	1/12/2023 12:20:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/12/2023 12:20:23 AM
Toluene	ND	0.050		mg/Kg	1	1/12/2023 12:20:23 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/12/2023 12:20:23 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/12/2023 12:20:23 AM
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	1/12/2023 12:20:23 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 3:39:29 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-93 2'

Project: East Pecos Spill

Collection Date: 1/5/2023 11:50:00 AM

Lab ID: 2301272-023

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/12/2023 7:23:52 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/12/2023 7:23:52 PM
Surr: DNOP	100	69-147		%Rec	1	1/12/2023 7:23:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/12/2023 12:43:40 AM
Surr: BFB	101	37.7-212		%Rec	1	1/12/2023 12:43:40 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/12/2023 12:43:40 AM
Toluene	ND	0.048		mg/Kg	1	1/12/2023 12:43:40 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/12/2023 12:43:40 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/12/2023 12:43:40 AM
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	1/12/2023 12:43:40 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	59		mg/Kg	20	1/11/2023 3:51:54 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301272

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-93 4'

Project: East Pecos Spill

Collection Date: 1/5/2023 11:55:00 AM

Lab ID: 2301272-024

Matrix: SOIL

Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/12/2023 7:34:11 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/12/2023 7:34:11 PM
Surr: DNOP	111	69-147		%Rec	1	1/12/2023 7:34:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2023 1:07:02 AM
Surr: BFB	99.5	37.7-212		%Rec	1	1/12/2023 1:07:02 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/12/2023 1:07:02 AM
Toluene	ND	0.049		mg/Kg	1	1/12/2023 1:07:02 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2023 1:07:02 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/12/2023 1:07:02 AM
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	1/12/2023 1:07:02 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1700	60		mg/Kg	20	1/11/2023 4:04:19 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301272

17-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Spill

Sample ID: MB-72575	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 72575		RunNo: 93895							
Prep Date: 1/11/2023	Analysis Date: 1/11/2023		SeqNo: 3389504		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72575	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 72575		RunNo: 93895							
Prep Date: 1/11/2023	Analysis Date: 1/11/2023		SeqNo: 3389505		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.5	90	110			

Sample ID: MB-72570	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 72570		RunNo: 93870							
Prep Date: 1/11/2023	Analysis Date: 1/11/2023		SeqNo: 3389810		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72570	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 72570		RunNo: 93870							
Prep Date: 1/11/2023	Analysis Date: 1/11/2023		SeqNo: 3389812		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.6	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301272

17-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Spill

Sample ID: LCS-72541	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 72541			RunNo: 93869						
Prep Date: 1/10/2023	Analysis Date: 1/11/2023			SeqNo: 3388577			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.0	64.4	127			
Surr: DNOP	5.7		5.000		113	21	129			

Sample ID: MB-72541	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 72541			RunNo: 93869						
Prep Date: 1/10/2023	Analysis Date: 1/11/2023			SeqNo: 3388580			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		117	21	129			

Sample ID: LCS-72585	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 72585			RunNo: 93911						
Prep Date: 1/12/2023	Analysis Date: 1/12/2023			SeqNo: 3390353			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.6		5.000		111	69	147			

Sample ID: MB-72585	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 72585			RunNo: 93911						
Prep Date: 1/12/2023	Analysis Date: 1/12/2023			SeqNo: 3390355			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		106	69	147			

Sample ID: 2301272-006AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH22-87 4'	Batch ID: 72572			RunNo: 93911						
Prep Date: 1/11/2023	Analysis Date: 1/12/2023			SeqNo: 3391667			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.8	49.07	0	81.9	54.2	135			
Surr: DNOP	5.1		4.907		105	69	147			

Sample ID: 2301272-006AMSD	SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH22-87 4'	Batch ID: 72572			RunNo: 93911						
Prep Date: 1/11/2023	Analysis Date: 1/12/2023			SeqNo: 3391668			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.3	46.47	0	99.1	54.2	135	13.6	33.9	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301272

17-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Spill

Sample ID: 2301272-006AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-87 4'	Batch ID: 72572	RunNo: 93911								
Prep Date: 1/11/2023	Analysis Date: 1/12/2023	SeqNo: 3391668 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.0		4.647		128	69	147	0	0	

Sample ID: LCS-72572	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72572	RunNo: 93911								
Prep Date: 1/11/2023	Analysis Date: 1/12/2023	SeqNo: 3391721 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	10	50.00	0	75.7	61.9	130			
Surr: DNOP	5.4		5.000		107	69	147			

Sample ID: MB-72572	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72572	RunNo: 93911								
Prep Date: 1/11/2023	Analysis Date: 1/12/2023	SeqNo: 3391726 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	15		10.00		147	69	147			S

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301272

17-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Spill

Sample ID: lcs-72537	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 72537			RunNo: 93875						
Prep Date: 1/10/2023	Analysis Date: 1/11/2023			SeqNo: 3388796		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.8	72.3	137			
Surr: BFB	2000		1000		203	37.7	212			

Sample ID: mb-72537	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 72537			RunNo: 93875						
Prep Date: 1/10/2023	Analysis Date: 1/11/2023			SeqNo: 3388797		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		106	37.7	212			

Sample ID: lcs-72532	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 72532			RunNo: 93873						
Prep Date: 1/10/2023	Analysis Date: 1/11/2023			SeqNo: 3389575		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.8	72.3	137			
Surr: BFB	2200		1000		222	37.7	212			S

Sample ID: mb-72532	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 72532			RunNo: 93873						
Prep Date: 1/10/2023	Analysis Date: 1/11/2023			SeqNo: 3389576		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		110	37.7	212			

Sample ID: 2301272-006ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH22-87 4'	Batch ID: 72537			RunNo: 93875						
Prep Date: 1/10/2023	Analysis Date: 1/11/2023			SeqNo: 3389752		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	5.0	24.88	0	76.5	70	130			
Surr: BFB	1700		995.0		175	37.7	212			

Sample ID: 2301272-006amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH22-87 4'	Batch ID: 72537			RunNo: 93875						
Prep Date: 1/10/2023	Analysis Date: 1/11/2023			SeqNo: 3389753		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301272

17-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Spill

Sample ID: 2301272-006amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH22-87 4'		Batch ID: 72537		RunNo: 93875						
Prep Date: 1/10/2023		Analysis Date: 1/11/2023		SeqNo: 3389753		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.70	0	101	70	130	26.6	20	R
Surr: BFB	2100		988.1		209	37.7	212	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301272

17-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Spill

Sample ID: LCS-72537	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72537		RunNo: 93875							
Prep Date: 1/10/2023	Analysis Date: 1/11/2023		SeqNo: 3388802		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.4	80	120			
Toluene	0.98	0.050	1.000	0	98.4	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.1	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.9	70	130			

Sample ID: mb-72537	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72537		RunNo: 93875							
Prep Date: 1/10/2023	Analysis Date: 1/11/2023		SeqNo: 3388803		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.4	70	130			

Sample ID: lcs-72532	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72532		RunNo: 93873							
Prep Date: 1/10/2023	Analysis Date: 1/11/2023		SeqNo: 3389628		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	116	80	120			
Toluene	1.2	0.050	1.000	0	116	80	120			
Ethylbenzene	1.2	0.050	1.000	0	116	80	120			
Xylenes, Total	3.5	0.10	3.000	0	116	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		125	70	130			

Sample ID: mb-72532	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72532		RunNo: 93873							
Prep Date: 1/10/2023	Analysis Date: 1/11/2023		SeqNo: 3389629		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.3		1.000		126	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301272

17-Jan-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Spill

Sample ID: 2301272-007ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-88 0'	Batch ID: 72537	RunNo: 93875								
Prep Date: 1/10/2023	Analysis Date: 1/11/2023	SeqNo: 3389908	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.024	0.9794	0	98.8	68.8	120			
Toluene	0.99	0.049	0.9794	0.01690	99.6	73.6	124			
Ethylbenzene	1.0	0.049	0.9794	0	102	72.7	129			
Xylenes, Total	3.0	0.098	2.938	0	101	75.7	126			
Surr: 4-Bromofluorobenzene	0.96		0.9794		97.5	70	130			

Sample ID: 2301272-007amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-88 0'	Batch ID: 72537	RunNo: 93875								
Prep Date: 1/10/2023	Analysis Date: 1/11/2023	SeqNo: 3389909	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9643	0	108	68.8	120	7.02	20	
Toluene	1.1	0.048	0.9643	0.01690	109	73.6	124	7.31	20	
Ethylbenzene	1.1	0.048	0.9643	0	112	72.7	129	7.54	20	
Xylenes, Total	3.2	0.096	2.893	0	111	75.7	126	8.01	20	
Surr: 4-Bromofluorobenzene	0.97		0.9643		101	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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

Sample Log-In Check List

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

Work Order Number: **2301272**

RcptNo: **1**

Received By: **Cheyenne Cason** 1/7/2023 8:30:00 AM

Completed By: **Cheyenne Cason** 1/7/2023 9:03:20 AM

Reviewed By: *gm/a/23*

Chul

Chul

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐

2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐

4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐

5. Sample(s) in proper container(s)? Yes ☒ No ☐

6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐

7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐

8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐

9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒

10. Were any sample containers received broken? Yes ☐ No ☒

11. Does paperwork match bottle labels? Yes ☐ No ☒

(Note discrepancies on chain of custody)

12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐

13. Is it clear what analyses were requested? Yes ☒ No ☐

14. Were all holding times able to be met? Yes ☒ No ☐

(If no, notify customer for authorization.)

of preserved bottles checked for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *CMC 1/7/23*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

COC Sample dates and times filled in from sample bottles by CMC 1/7/23

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.0	Good	Not Present	Yogi		



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

February 02, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: East Pecos Pipeline Spill

OrderNo.: 2301981

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 20 sample(s) on 1/26/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-108 10'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 9:40:00 AM

Lab ID: 2301981-001

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/28/2023 1:54:36 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/28/2023 1:54:36 AM
Surr: DNOP	96.9	69-147		%Rec	1	1/28/2023 1:54:36 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/28/2023 12:34:41 AM
Surr: BFB	102	37.7-212		%Rec	1	1/28/2023 12:34:41 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/28/2023 12:34:41 AM
Toluene	ND	0.050		mg/Kg	1	1/28/2023 12:34:41 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/28/2023 12:34:41 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/28/2023 12:34:41 AM
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	1/28/2023 12:34:41 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	17000	600		mg/Kg	200	1/30/2023 7:57:42 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 1 of 25

Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-108 20'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 9:50:00 AM

Lab ID: 2301981-002

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/28/2023 2:25:31 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/28/2023 2:25:31 AM
Surr: DNOP	99.8	69-147		%Rec	1	1/28/2023 2:25:31 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/28/2023 1:44:08 AM
Surr: BFB	101	37.7-212		%Rec	1	1/28/2023 1:44:08 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/28/2023 1:44:08 AM
Toluene	ND	0.049		mg/Kg	1	1/28/2023 1:44:08 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/28/2023 1:44:08 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/28/2023 1:44:08 AM
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	1/28/2023 1:44:08 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	7300	300		mg/Kg	100	1/30/2023 8:10:34 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-108 30'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 10:00:00 AM

Lab ID: 2301981-003

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/28/2023 2:35:44 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/28/2023 2:35:44 AM
Surr: DNOP	98.1	69-147		%Rec	1	1/28/2023 2:35:44 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/28/2023 2:53:30 AM
Surr: BFB	101	37.7-212		%Rec	1	1/28/2023 2:53:30 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/28/2023 2:53:30 AM
Toluene	ND	0.048		mg/Kg	1	1/28/2023 2:53:30 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/28/2023 2:53:30 AM
Xylenes, Total	ND	0.095		mg/Kg	1	1/28/2023 2:53:30 AM
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	1/28/2023 2:53:30 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	13000	600		mg/Kg	200	1/30/2023 8:23:26 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-108 40'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 10:10:00 AM

Lab ID: 2301981-004

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/28/2023 2:45:56 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	1/28/2023 2:45:56 AM
Surr: DNOP	96.8	69-147		%Rec	1	1/28/2023 2:45:56 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/28/2023 3:16:34 AM
Surr: BFB	100	37.7-212		%Rec	1	1/28/2023 3:16:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/28/2023 3:16:34 AM
Toluene	ND	0.048		mg/Kg	1	1/28/2023 3:16:34 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/28/2023 3:16:34 AM
Xylenes, Total	ND	0.096		mg/Kg	1	1/28/2023 3:16:34 AM
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	1/28/2023 3:16:34 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	13000	600		mg/Kg	200	1/30/2023 8:36:18 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-109 10'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 10:20:00 AM

Lab ID: 2301981-005

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/28/2023 2:56:09 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/28/2023 2:56:09 AM
Surr: DNOP	112	69-147		%Rec	1	1/28/2023 2:56:09 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/28/2023 3:39:43 AM
Surr: BFB	101	37.7-212		%Rec	1	1/28/2023 3:39:43 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/28/2023 3:39:43 AM
Toluene	ND	0.047		mg/Kg	1	1/28/2023 3:39:43 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/28/2023 3:39:43 AM
Xylenes, Total	ND	0.094		mg/Kg	1	1/28/2023 3:39:43 AM
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	1/28/2023 3:39:43 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	2400	150		mg/Kg	50	1/30/2023 8:49:10 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-109 20'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 10:30:00 AM

Lab ID: 2301981-006

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/28/2023 3:06:27 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/28/2023 3:06:27 AM
Surr: DNOP	111	69-147		%Rec	1	1/28/2023 3:06:27 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/28/2023 4:02:52 AM
Surr: BFB	101	37.7-212		%Rec	1	1/28/2023 4:02:52 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/28/2023 4:02:52 AM
Toluene	ND	0.049		mg/Kg	1	1/28/2023 4:02:52 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/28/2023 4:02:52 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/28/2023 4:02:52 AM
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	1/28/2023 4:02:52 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	2800	150		mg/Kg	50	1/30/2023 9:02:01 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-109 30'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 10:40:00 AM

Lab ID: 2301981-007

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/28/2023 3:16:47 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/28/2023 3:16:47 AM
Surr: DNOP	97.5	69-147		%Rec	1	1/28/2023 3:16:47 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/28/2023 4:25:56 AM
Surr: BFB	101	37.7-212		%Rec	1	1/28/2023 4:25:56 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	1/28/2023 4:25:56 AM
Toluene	ND	0.047		mg/Kg	1	1/28/2023 4:25:56 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/28/2023 4:25:56 AM
Xylenes, Total	ND	0.094		mg/Kg	1	1/28/2023 4:25:56 AM
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	1/28/2023 4:25:56 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1800	60		mg/Kg	20	1/28/2023 12:50:24 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-109 40'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 10:50:00 AM

Lab ID: 2301981-008

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	1/28/2023 3:27:08 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/28/2023 3:27:08 AM
Surr: DNOP	107	69-147		%Rec	1	1/28/2023 3:27:08 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/28/2023 4:49:04 AM
Surr: BFB	102	37.7-212		%Rec	1	1/28/2023 4:49:04 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/28/2023 4:49:04 AM
Toluene	ND	0.047		mg/Kg	1	1/28/2023 4:49:04 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/28/2023 4:49:04 AM
Xylenes, Total	ND	0.095		mg/Kg	1	1/28/2023 4:49:04 AM
Surr: 4-Bromofluorobenzene	93.8	70-130		%Rec	1	1/28/2023 4:49:04 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	1200	60		mg/Kg	20	1/28/2023 1:02:45 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-110 10'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 11:00:00 AM

Lab ID: 2301981-009

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/28/2023 3:37:34 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/28/2023 3:37:34 AM
Surr: DNOP	96.7	69-147		%Rec	1	1/28/2023 3:37:34 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/28/2023 5:12:07 AM
Surr: BFB	98.1	37.7-212		%Rec	1	1/28/2023 5:12:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/28/2023 5:12:07 AM
Toluene	ND	0.047		mg/Kg	1	1/28/2023 5:12:07 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/28/2023 5:12:07 AM
Xylenes, Total	ND	0.094		mg/Kg	1	1/28/2023 5:12:07 AM
Surr: 4-Bromofluorobenzene	90.0	70-130		%Rec	1	1/28/2023 5:12:07 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	9200	600		mg/Kg	200	1/30/2023 9:14:53 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-110 20'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 11:10:00 AM

Lab ID: 2301981-010

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/1/2023 1:34:34 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/1/2023 1:34:34 PM
Surr: DNOP	115	69-147		%Rec	1	2/1/2023 1:34:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/28/2023 5:35:09 AM
Surr: BFB	101	37.7-212		%Rec	1	1/28/2023 5:35:09 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	1/28/2023 5:35:09 AM
Toluene	ND	0.047		mg/Kg	1	1/28/2023 5:35:09 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/28/2023 5:35:09 AM
Xylenes, Total	ND	0.093		mg/Kg	1	1/28/2023 5:35:09 AM
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	1/28/2023 5:35:09 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	14000	600		mg/Kg	200	1/30/2023 9:27:46 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-110 30'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 11:20:00 AM

Lab ID: 2301981-011

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/28/2023 4:08:46 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/28/2023 4:08:46 AM
Surr: DNOP	96.6	69-147		%Rec	1	1/28/2023 4:08:46 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/28/2023 6:21:20 AM
Surr: BFB	101	37.7-212		%Rec	1	1/28/2023 6:21:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/28/2023 6:21:20 AM
Toluene	ND	0.048		mg/Kg	1	1/28/2023 6:21:20 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/28/2023 6:21:20 AM
Xylenes, Total	ND	0.095		mg/Kg	1	1/28/2023 6:21:20 AM
Surr: 4-Bromofluorobenzene	94.1	70-130		%Rec	1	1/28/2023 6:21:20 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	3100	150		mg/Kg	50	1/30/2023 9:40:38 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-110 40'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 11:30:00 AM

Lab ID: 2301981-012

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	1/28/2023 4:19:14 AM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	1/28/2023 4:19:14 AM
Surr: DNOP	102	69-147		%Rec	1	1/28/2023 4:19:14 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/28/2023 6:44:21 AM
Surr: BFB	101	37.7-212		%Rec	1	1/28/2023 6:44:21 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/28/2023 6:44:21 AM
Toluene	ND	0.049		mg/Kg	1	1/28/2023 6:44:21 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/28/2023 6:44:21 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/28/2023 6:44:21 AM
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	1/28/2023 6:44:21 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	2900	150		mg/Kg	50	1/30/2023 9:53:30 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-111 10'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 11:40:00 AM

Lab ID: 2301981-013

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/28/2023 4:29:45 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/28/2023 4:29:45 AM
Surr: DNOP	93.5	69-147		%Rec	1	1/28/2023 4:29:45 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/28/2023 7:07:23 AM
Surr: BFB	101	37.7-212		%Rec	1	1/28/2023 7:07:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/28/2023 7:07:23 AM
Toluene	ND	0.047		mg/Kg	1	1/28/2023 7:07:23 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/28/2023 7:07:23 AM
Xylenes, Total	ND	0.094		mg/Kg	1	1/28/2023 7:07:23 AM
Surr: 4-Bromofluorobenzene	93.2	70-130		%Rec	1	1/28/2023 7:07:23 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	7600	300		mg/Kg	100	1/30/2023 10:32:05 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-111 20'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 11:50:00 AM

Lab ID: 2301981-014

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/28/2023 4:40:26 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/28/2023 4:40:26 AM
Surr: DNOP	95.2	69-147		%Rec	1	1/28/2023 4:40:26 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/28/2023 7:30:25 AM
Surr: BFB	98.0	37.7-212		%Rec	1	1/28/2023 7:30:25 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/28/2023 7:30:25 AM
Toluene	ND	0.049		mg/Kg	1	1/28/2023 7:30:25 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/28/2023 7:30:25 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/28/2023 7:30:25 AM
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	1/28/2023 7:30:25 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	11000	590		mg/Kg	200	1/30/2023 10:44:58 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-111 30'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 12:00:00 PM

Lab ID: 2301981-015

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	1/28/2023 4:51:04 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/28/2023 4:51:04 AM
Surr: DNOP	91.9	69-147		%Rec	1	1/28/2023 4:51:04 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/28/2023 7:53:34 AM
Surr: BFB	99.7	37.7-212		%Rec	1	1/28/2023 7:53:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/28/2023 7:53:34 AM
Toluene	ND	0.049		mg/Kg	1	1/28/2023 7:53:34 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/28/2023 7:53:34 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/28/2023 7:53:34 AM
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	1/28/2023 7:53:34 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	3800	150		mg/Kg	50	1/30/2023 10:57:48 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-111 40'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 12:10:00 PM

Lab ID: 2301981-016

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/28/2023 5:01:42 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/28/2023 5:01:42 AM
Surr: DNOP	93.3	69-147		%Rec	1	1/28/2023 5:01:42 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/28/2023 8:16:39 AM
Surr: BFB	101	37.7-212		%Rec	1	1/28/2023 8:16:39 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/28/2023 8:16:39 AM
Toluene	ND	0.047		mg/Kg	1	1/28/2023 8:16:39 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/28/2023 8:16:39 AM
Xylenes, Total	ND	0.095		mg/Kg	1	1/28/2023 8:16:39 AM
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	1/28/2023 8:16:39 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	8900	300		mg/Kg	100	1/30/2023 11:10:40 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-112 10'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 12:20:00 PM

Lab ID: 2301981-017

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/28/2023 5:12:16 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/28/2023 5:12:16 AM
Surr: DNOP	94.1	69-147		%Rec	1	1/28/2023 5:12:16 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/28/2023 8:39:45 AM
Surr: BFB	99.1	37.7-212		%Rec	1	1/28/2023 8:39:45 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/28/2023 8:39:45 AM
Toluene	ND	0.047		mg/Kg	1	1/28/2023 8:39:45 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/28/2023 8:39:45 AM
Xylenes, Total	ND	0.095		mg/Kg	1	1/28/2023 8:39:45 AM
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	1/28/2023 8:39:45 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	10000	600		mg/Kg	200	1/30/2023 11:23:32 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-112 20'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 12:30:00 PM

Lab ID: 2301981-018

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	1/28/2023 5:22:51 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	1/28/2023 5:22:51 AM
Surr: DNOP	95.6	69-147		%Rec	1	1/28/2023 5:22:51 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/28/2023 9:02:53 AM
Surr: BFB	101	37.7-212		%Rec	1	1/28/2023 9:02:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	1/28/2023 9:02:53 AM
Toluene	ND	0.050		mg/Kg	1	1/28/2023 9:02:53 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/28/2023 9:02:53 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/28/2023 9:02:53 AM
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	1/28/2023 9:02:53 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	11000	600		mg/Kg	200	1/30/2023 11:36:24 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-112 30'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 12:40:00 PM

Lab ID: 2301981-019

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	1/28/2023 5:33:24 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	1/28/2023 5:33:24 AM
Surr: DNOP	94.3	69-147		%Rec	1	1/28/2023 5:33:24 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/28/2023 9:26:01 AM
Surr: BFB	102	37.7-212		%Rec	1	1/28/2023 9:26:01 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	1/28/2023 9:26:01 AM
Toluene	ND	0.048		mg/Kg	1	1/28/2023 9:26:01 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/28/2023 9:26:01 AM
Xylenes, Total	ND	0.096		mg/Kg	1	1/28/2023 9:26:01 AM
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	1/28/2023 9:26:01 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	4000	150		mg/Kg	50	1/30/2023 11:49:16 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2301981

Date Reported: 2/2/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-112 40'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 12:50:00 PM

Lab ID: 2301981-020

Matrix: SOIL

Received Date: 1/26/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/28/2023 5:43:55 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/28/2023 5:43:55 AM
Surr: DNOP	98.5	69-147		%Rec	1	1/28/2023 5:43:55 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/28/2023 9:49:15 AM
Surr: BFB	100	37.7-212		%Rec	1	1/28/2023 9:49:15 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	1/28/2023 9:49:15 AM
Toluene	ND	0.046		mg/Kg	1	1/28/2023 9:49:15 AM
Ethylbenzene	ND	0.046		mg/Kg	1	1/28/2023 9:49:15 AM
Xylenes, Total	ND	0.093		mg/Kg	1	1/28/2023 9:49:15 AM
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	1/28/2023 9:49:15 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	4700	300		mg/Kg	100	1/30/2023 12:02:07 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301981

02-Feb-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: MB-72878	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72878	RunNo: 94262								
Prep Date: 1/28/2023	Analysis Date: 1/28/2023	SeqNo: 3404635			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72878	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72878	RunNo: 94262								
Prep Date: 1/28/2023	Analysis Date: 1/28/2023	SeqNo: 3404636			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.2	90	110			

Sample ID: MB-72880	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 72880	RunNo: 94262								
Prep Date: 1/28/2023	Analysis Date: 1/28/2023	SeqNo: 3404697			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-72880	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 72880	RunNo: 94262								
Prep Date: 1/28/2023	Analysis Date: 1/28/2023	SeqNo: 3404698			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.4	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301981

02-Feb-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: MB-72851	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72851	RunNo: 94273								
Prep Date: 1/26/2023	Analysis Date: 1/27/2023	SeqNo: 3405036 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	69	147			

Sample ID: LCS-72851	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72851	RunNo: 94273								
Prep Date: 1/26/2023	Analysis Date: 1/27/2023	SeqNo: 3405040 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.1	61.9	130			
Surr: DNOP	5.1		5.000		102	69	147			

Sample ID: 2301981-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-108 10'	Batch ID: 72851	RunNo: 94273								
Prep Date: 1/26/2023	Analysis Date: 1/28/2023	SeqNo: 3405130 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.4	47.17	0	88.8	54.2	135			
Surr: DNOP	4.6		4.717		98.2	69	147			

Sample ID: 2301981-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-108 10'	Batch ID: 72851	RunNo: 94273								
Prep Date: 1/26/2023	Analysis Date: 1/28/2023	SeqNo: 3405133 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.9	49.46	0	85.6	54.2	135	1.11	29.2	
Surr: DNOP	4.7		4.946		95.5	69	147	0	0	

Sample ID: LCS-72898	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72898	RunNo: 94303								
Prep Date: 1/30/2023	Analysis Date: 1/31/2023	SeqNo: 3406297 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	61.9	130			
Surr: DNOP	6.1		5.000		121	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301981

02-Feb-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: MB-72898	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72898	RunNo: 94303								
Prep Date: 1/30/2023	Analysis Date: 1/31/2023	SeqNo: 3406300	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		109	69	147			

Sample ID: LCS-72922	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 72922	RunNo: 94350								
Prep Date: 1/31/2023	Analysis Date: 2/1/2023	SeqNo: 3408369	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		5.000		108	69	147			

Sample ID: MB-72922	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 72922	RunNo: 94350								
Prep Date: 1/31/2023	Analysis Date: 2/1/2023	SeqNo: 3408373	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.6		10.00		96.2	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301981

02-Feb-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: lcs-72845		SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS		Batch ID: 72845			RunNo: 94260					
Prep Date: 1/26/2023		Analysis Date: 1/27/2023			SeqNo: 3404509		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	121	72.3	137			
Surr: BFB	1200		1000		115	37.7	212			

Sample ID: mb-72845		SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS		Batch ID: 72845			RunNo: 94260						
Prep Date: 1/26/2023		Analysis Date: 1/28/2023			SeqNo: 3404511		Units: mg/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		ND	5.0								
Surr: BFB		1000		1000		103	37.7	212			

Sample ID: 2301981-001ams		SampType: MS			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH22-108 10'		Batch ID: 72845			RunNo: 94260					
Prep Date: 1/26/2023		Analysis Date: 1/28/2023			SeqNo: 3404559		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	33	4.9	24.73	0	135	70	130			S
Surr: BFB	1100		989.1		113	37.7	212			

Sample ID: 2301981-001amsd		SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH22-108 10'		Batch ID: 72845			RunNo: 94260					
Prep Date: 1/26/2023		Analysis Date: 1/28/2023			SeqNo: 3404560		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	34	5.0	24.78	0	135	70	130	0.287	20	S
Surr: BFB	1200		991.1		117	37.7	212	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2301981

02-Feb-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: LCS-72845	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 72845		RunNo: 94260							
Prep Date: 1/26/2023	Analysis Date: 1/27/2023		SeqNo: 3404586		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.0	80	120			
Toluene	0.98	0.050	1.000	0	97.7	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.8	80	120			
Surr: 4-Bromofluorobenzene	0.98		1.000		97.8	70	130			

Sample ID: mb-72845	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 72845		RunNo: 94260							
Prep Date: 1/26/2023	Analysis Date: 1/28/2023		SeqNo: 3404588		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.9	70	130			

Sample ID: 2301981-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-108 20'	Batch ID: 72845		RunNo: 94260							
Prep Date: 1/26/2023	Analysis Date: 1/28/2023		SeqNo: 3404613		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.024	0.9533	0	104	68.8	120			
Toluene	1.0	0.048	0.9533	0.01795	104	73.6	124			
Ethylbenzene	0.99	0.048	0.9533	0	104	72.7	129			
Xylenes, Total	3.0	0.095	2.860	0.02820	103	75.7	126			
Surr: 4-Bromofluorobenzene	0.92		0.9533		96.3	70	130			

Sample ID: 2301981-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-108 20'	Batch ID: 72845		RunNo: 94260							
Prep Date: 1/26/2023	Analysis Date: 1/28/2023		SeqNo: 3404614		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	0.9881	0	95.1	68.8	120	5.23	20	
Toluene	0.95	0.049	0.9881	0.01795	94.0	73.6	124	6.13	20	
Ethylbenzene	0.93	0.049	0.9881	0	94.4	72.7	129	6.12	20	
Xylenes, Total	2.8	0.099	2.964	0.02820	93.0	75.7	126	6.26	20	
Surr: 4-Bromofluorobenzene	0.90		0.9881		91.5	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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

Sample Log-In Check List

Client Name: Vertex Resources
Services, Inc.

Work Order Number: 2301981

RcptNo: 1

Received By: Tracy Casarrubias 1/26/2023 7:25:00 AM

Completed By: Tracy Casarrubias 1/26/2023 7:31:50 AM

Reviewed By: *JA 1-26-23*

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *JA 1/26/23*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

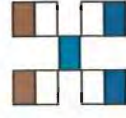
Regarding: _____

Client Instructions: Missing mailing address, phone number and email on COC- TMC 1/26/23

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0	Good	Yes	<i>Yogi</i>	<i>1/26/23</i>	



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

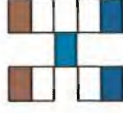
Tel. 505-345-3975 Fax 505-345-4107

Turn-Around Time:		<input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush <u>48-hr</u>			
Project Name:		East Pecos Pipeline Spill			
Project #:		22E-03982			
Project Manager:		Kent Stallings			
QA/QC Package:		kstallings@vertex.ca			
Accreditation:		<input type="checkbox"/> Level 4 (Full Validation) <input type="checkbox"/> Az Compliance <input type="checkbox"/> NELAC <input type="checkbox"/> Other _____			
Phone #:		22E-03982			
email or Fax#:		22E-03982			
Mailing Address:		(direct bill to Devon)			
Client:		Vertex			
Turn-Around Time:		48-hr			

Date		Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
01/01/23	9:40		Soil	BH22-108 10'	1, 4oz jar		001
01/01/23	9:50		Soil	BH22-108 20'	1, 4oz jar		002
01/01/23	10:00		Soil	BH22-108 30'	1, 4oz jar		003
01/02/23	10:10		Soil	BH22-108 40'	1, 4oz jar		004
01/02/23	10:20		Soil	BH22-109 10'	1, 4oz jar		005
01/02/23	10:30		Soil	BH22-109 20'	1, 4oz jar		006
01/02/23	10:40		Soil	BH22-109 30'	1, 4oz jar		007
01/02/23	10:50		Soil	BH22-109 40'	1, 4oz jar		008
01/02/23	11:00		Soil	BH22-110 10'	1, 4oz jar		009
01/02/23	11:10		Soil	BH22-110 20'	1, 4oz jar		010
01/02/23	11:20		Soil	BH22-110 30'	1, 4oz jar		011
01/02/23	11:30		Soil	BH22-110 40'	1, 4oz jar		012

Relinquished by:		Relinquished by:	
Date: 1-25-23		Date: 1/26/23	
Time: 0700		Time: 7:25	

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



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time:		<input type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush	48-hr
Project Name:		East Pecos Pipeline Spill		
Project #:		22E-03982		
Project Manager:		Kent Stallings		
Sampler:		L. Pullman H. Klein		
On Ice:		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
# of Coolers:		1		
Cooler Temp (including CF):		0.1 - 0.12 0.12		
Container Type and #		Preservative Type		HEAL No.
1, 4oz jar				2301981
1, 4oz jar				013
1, 4oz jar				014
1, 4oz jar				015
1, 4oz jar				016
1, 4oz jar				017
1, 4oz jar				018
1, 4oz jar				019
1, 4oz jar				020
Received by:		Via:		Date Time
1/25/23		1/25/23		7:35
Date:		Time:		
1/25/23		07:00		
Date:		Time:		
1/25/23		07:00		

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



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

February 13, 2023

Monica Peppin

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: East Pecos Pipeline Spill

OrderNo.: 2302198

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 20 sample(s) on 2/4/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-108 10'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 9:40:00 AM

Lab ID: 2302198-001

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13	H	mg/Kg	1	2/7/2023 4:40:58 PM
Motor Oil Range Organics (MRO)	ND	43	H	mg/Kg	1	2/7/2023 4:40:58 PM
Surr: DNOP	101	69-147	H	%Rec	1	2/7/2023 4:40:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	H	mg/Kg	1	2/7/2023 3:56:00 PM
Surr: BFB	99.1	37.7-212	H	%Rec	1	2/7/2023 3:56:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024	H	mg/Kg	1	2/7/2023 3:56:00 PM
Toluene	ND	0.048	H	mg/Kg	1	2/7/2023 3:56:00 PM
Ethylbenzene	ND	0.048	H	mg/Kg	1	2/7/2023 3:56:00 PM
Xylenes, Total	ND	0.096	H	mg/Kg	1	2/7/2023 3:56:00 PM
Surr: 4-Bromofluorobenzene	97.0	70-130	H	%Rec	1	2/7/2023 3:56:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	17000	600		mg/Kg	200	2/6/2023 1:18:36 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-108 20'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 9:50:00 AM

Lab ID: 2302198-002

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15	H	mg/Kg	1	2/7/2023 5:22:36 PM
Motor Oil Range Organics (MRO)	ND	49	H	mg/Kg	1	2/7/2023 5:22:36 PM
Surr: DNOP	102	69-147	H	%Rec	1	2/7/2023 5:22:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	H	mg/Kg	1	2/7/2023 4:55:00 PM
Surr: BFB	95.6	37.7-212	H	%Rec	1	2/7/2023 4:55:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024	H	mg/Kg	1	2/7/2023 4:55:00 PM
Toluene	ND	0.049	H	mg/Kg	1	2/7/2023 4:55:00 PM
Ethylbenzene	ND	0.049	H	mg/Kg	1	2/7/2023 4:55:00 PM
Xylenes, Total	ND	0.098	H	mg/Kg	1	2/7/2023 4:55:00 PM
Surr: 4-Bromofluorobenzene	91.3	70-130	H	%Rec	1	2/7/2023 4:55:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	5300	300		mg/Kg	100	2/7/2023 6:03:54 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-108 30'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 10:00:00 AM

Lab ID: 2302198-003

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13	H	mg/Kg	1	2/7/2023 5:35:46 PM
Motor Oil Range Organics (MRO)	ND	43	H	mg/Kg	1	2/7/2023 5:35:46 PM
Surr: DNOP	101	69-147	H	%Rec	1	2/7/2023 5:35:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	H	mg/Kg	1	2/7/2023 5:54:00 PM
Surr: BFB	93.0	37.7-212	H	%Rec	1	2/7/2023 5:54:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024	H	mg/Kg	1	2/7/2023 5:54:00 PM
Toluene	ND	0.049	H	mg/Kg	1	2/7/2023 5:54:00 PM
Ethylbenzene	ND	0.049	H	mg/Kg	1	2/7/2023 5:54:00 PM
Xylenes, Total	ND	0.097	H	mg/Kg	1	2/7/2023 5:54:00 PM
Surr: 4-Bromofluorobenzene	91.9	70-130	H	%Rec	1	2/7/2023 5:54:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	13000	600		mg/Kg	200	2/7/2023 6:16:18 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-108 40'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 10:10:00 AM

Lab ID: 2302198-004

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14	H	mg/Kg	1	2/7/2023 5:48:53 PM
Motor Oil Range Organics (MRO)	ND	47	H	mg/Kg	1	2/7/2023 5:48:53 PM
Surr: DNOP	99.8	69-147	H	%Rec	1	2/7/2023 5:48:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	H	mg/Kg	1	2/7/2023 6:33:00 PM
Surr: BFB	94.8	37.7-212	H	%Rec	1	2/7/2023 6:33:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024	H	mg/Kg	1	2/7/2023 6:33:00 PM
Toluene	ND	0.048	H	mg/Kg	1	2/7/2023 6:33:00 PM
Ethylbenzene	ND	0.048	H	mg/Kg	1	2/7/2023 6:33:00 PM
Xylenes, Total	ND	0.096	H	mg/Kg	1	2/7/2023 6:33:00 PM
Surr: 4-Bromofluorobenzene	93.0	70-130	H	%Rec	1	2/7/2023 6:33:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	13000	600		mg/Kg	200	2/7/2023 6:28:42 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-109 10'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 10:20:00 AM

Lab ID: 2302198-005

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15	H	mg/Kg	1	2/7/2023 6:01:43 PM
Motor Oil Range Organics (MRO)	ND	49	H	mg/Kg	1	2/7/2023 6:01:43 PM
Surr: DNOP	100	69-147	H	%Rec	1	2/7/2023 6:01:43 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	H	mg/Kg	1	2/7/2023 6:53:00 PM
Surr: BFB	93.8	37.7-212	H	%Rec	1	2/7/2023 6:53:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024	H	mg/Kg	1	2/7/2023 6:53:00 PM
Toluene	ND	0.049	H	mg/Kg	1	2/7/2023 6:53:00 PM
Ethylbenzene	ND	0.049	H	mg/Kg	1	2/7/2023 6:53:00 PM
Xylenes, Total	ND	0.098	H	mg/Kg	1	2/7/2023 6:53:00 PM
Surr: 4-Bromofluorobenzene	93.8	70-130	H	%Rec	1	2/7/2023 6:53:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	2200	300		mg/Kg	100	2/7/2023 6:41:07 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-109 20'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 10:30:00 AM

Lab ID: 2302198-006

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13	H	mg/Kg	1	2/7/2023 6:14:27 PM
Motor Oil Range Organics (MRO)	ND	45	H	mg/Kg	1	2/7/2023 6:14:27 PM
Surr: DNOP	105	69-147	H	%Rec	1	2/7/2023 6:14:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	H	mg/Kg	1	2/7/2023 7:13:00 PM
Surr: BFB	95.2	37.7-212	H	%Rec	1	2/7/2023 7:13:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025	H	mg/Kg	1	2/7/2023 7:13:00 PM
Toluene	ND	0.050	H	mg/Kg	1	2/7/2023 7:13:00 PM
Ethylbenzene	ND	0.050	H	mg/Kg	1	2/7/2023 7:13:00 PM
Xylenes, Total	ND	0.099	H	mg/Kg	1	2/7/2023 7:13:00 PM
Surr: 4-Bromofluorobenzene	93.0	70-130	H	%Rec	1	2/7/2023 7:13:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	2700	150		mg/Kg	50	2/7/2023 8:47:10 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-109 30'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 10:40:00 AM

Lab ID: 2302198-007

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13	H	mg/Kg	1	2/7/2023 6:27:21 PM
Motor Oil Range Organics (MRO)	ND	44	H	mg/Kg	1	2/7/2023 6:27:21 PM
Surr: DNOP	99.6	69-147	H	%Rec	1	2/7/2023 6:27:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	H	mg/Kg	1	2/7/2023 7:33:00 PM
Surr: BFB	95.1	37.7-212	H	%Rec	1	2/7/2023 7:33:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024	H	mg/Kg	1	2/7/2023 7:33:00 PM
Toluene	ND	0.048	H	mg/Kg	1	2/7/2023 7:33:00 PM
Ethylbenzene	ND	0.048	H	mg/Kg	1	2/7/2023 7:33:00 PM
Xylenes, Total	ND	0.096	H	mg/Kg	1	2/7/2023 7:33:00 PM
Surr: 4-Bromofluorobenzene	94.7	70-130	H	%Rec	1	2/7/2023 7:33:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	1900	61		mg/Kg	20	2/6/2023 6:41:21 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-109 40'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 10:50:00 AM

Lab ID: 2302198-008

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13	H	mg/Kg	1	2/7/2023 6:40:03 PM
Motor Oil Range Organics (MRO)	ND	44	H	mg/Kg	1	2/7/2023 6:40:03 PM
Surr: DNOP	103	69-147	H	%Rec	1	2/7/2023 6:40:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	H	mg/Kg	1	2/7/2023 7:52:00 PM
Surr: BFB	97.9	37.7-212	H	%Rec	1	2/7/2023 7:52:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025	H	mg/Kg	1	2/7/2023 7:52:00 PM
Toluene	ND	0.049	H	mg/Kg	1	2/7/2023 7:52:00 PM
Ethylbenzene	ND	0.049	H	mg/Kg	1	2/7/2023 7:52:00 PM
Xylenes, Total	ND	0.099	H	mg/Kg	1	2/7/2023 7:52:00 PM
Surr: 4-Bromofluorobenzene	90.8	70-130	H	%Rec	1	2/7/2023 7:52:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	1400	61		mg/Kg	20	2/6/2023 7:18:36 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-110 10'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 11:00:00 AM

Lab ID: 2302198-009

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14	H	mg/Kg	1	2/7/2023 7:05:19 PM
Motor Oil Range Organics (MRO)	ND	47	H	mg/Kg	1	2/7/2023 7:05:19 PM
Surr: DNOP	105	69-147	H	%Rec	1	2/7/2023 7:05:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	H	mg/Kg	1	2/7/2023 8:12:00 PM
Surr: BFB	97.2	37.7-212	H	%Rec	1	2/7/2023 8:12:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025	H	mg/Kg	1	2/7/2023 8:12:00 PM
Toluene	ND	0.050	H	mg/Kg	1	2/7/2023 8:12:00 PM
Ethylbenzene	ND	0.050	H	mg/Kg	1	2/7/2023 8:12:00 PM
Xylenes, Total	ND	0.10	H	mg/Kg	1	2/7/2023 8:12:00 PM
Surr: 4-Bromofluorobenzene	91.6	70-130	H	%Rec	1	2/7/2023 8:12:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	10000	600		mg/Kg	200	2/7/2023 8:59:34 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-110 20'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 11:10:00 AM

Lab ID: 2302198-010

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15	H	mg/Kg	1	2/7/2023 7:17:58 PM
Motor Oil Range Organics (MRO)	ND	49	H	mg/Kg	1	2/7/2023 7:17:58 PM
Surr: DNOP	108	69-147	H	%Rec	1	2/7/2023 7:17:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	H	mg/Kg	1	2/7/2023 8:31:00 PM
Surr: BFB	94.2	37.7-212	H	%Rec	1	2/7/2023 8:31:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024	H	mg/Kg	1	2/7/2023 8:31:00 PM
Toluene	ND	0.048	H	mg/Kg	1	2/7/2023 8:31:00 PM
Ethylbenzene	ND	0.048	H	mg/Kg	1	2/7/2023 8:31:00 PM
Xylenes, Total	ND	0.097	H	mg/Kg	1	2/7/2023 8:31:00 PM
Surr: 4-Bromofluorobenzene	92.2	70-130	H	%Rec	1	2/7/2023 8:31:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	14000	600		mg/Kg	200	2/7/2023 9:11:59 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-110 30'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 11:02:00 AM

Lab ID: 2302198-011

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15	H	mg/Kg	1	2/7/2023 7:30:41 PM
Motor Oil Range Organics (MRO)	ND	50	H	mg/Kg	1	2/7/2023 7:30:41 PM
Surr: DNOP	105	69-147	H	%Rec	1	2/7/2023 7:30:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	H	mg/Kg	1	2/7/2023 8:51:00 PM
Surr: BFB	91.2	37.7-212	H	%Rec	1	2/7/2023 8:51:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024	H	mg/Kg	1	2/7/2023 8:51:00 PM
Toluene	ND	0.048	H	mg/Kg	1	2/7/2023 8:51:00 PM
Ethylbenzene	ND	0.048	H	mg/Kg	1	2/7/2023 8:51:00 PM
Xylenes, Total	ND	0.097	H	mg/Kg	1	2/7/2023 8:51:00 PM
Surr: 4-Bromofluorobenzene	91.1	70-130	H	%Rec	1	2/7/2023 8:51:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	5700	600		mg/Kg	200	2/7/2023 9:24:24 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-110 40'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 11:30:00 AM

Lab ID: 2302198-012

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14	H	mg/Kg	1	2/7/2023 7:43:53 PM
Motor Oil Range Organics (MRO)	ND	47	H	mg/Kg	1	2/7/2023 7:43:53 PM
Surr: DNOP	109	69-147	H	%Rec	1	2/7/2023 7:43:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	H	mg/Kg	1	2/7/2023 9:10:00 PM
Surr: BFB	93.0	37.7-212	H	%Rec	1	2/7/2023 9:10:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024	H	mg/Kg	1	2/7/2023 9:10:00 PM
Toluene	ND	0.049	H	mg/Kg	1	2/7/2023 9:10:00 PM
Ethylbenzene	ND	0.049	H	mg/Kg	1	2/7/2023 9:10:00 PM
Xylenes, Total	ND	0.097	H	mg/Kg	1	2/7/2023 9:10:00 PM
Surr: 4-Bromofluorobenzene	92.7	70-130	H	%Rec	1	2/7/2023 9:10:00 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	3000	150		mg/Kg	50	2/8/2023 8:35:42 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-111 10'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 11:40:00 AM

Lab ID: 2302198-013

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15	H	mg/Kg	1	2/7/2023 7:56:59 PM
Motor Oil Range Organics (MRO)	ND	49	H	mg/Kg	1	2/7/2023 7:56:59 PM
Surr: DNOP	111	69-147	H	%Rec	1	2/7/2023 7:56:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	H	mg/Kg	1	2/7/2023 9:30:00 PM
Surr: BFB	91.9	37.7-212	H	%Rec	1	2/7/2023 9:30:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023	H	mg/Kg	1	2/7/2023 9:30:00 PM
Toluene	ND	0.047	H	mg/Kg	1	2/7/2023 9:30:00 PM
Ethylbenzene	ND	0.047	H	mg/Kg	1	2/7/2023 9:30:00 PM
Xylenes, Total	ND	0.094	H	mg/Kg	1	2/7/2023 9:30:00 PM
Surr: 4-Bromofluorobenzene	91.2	70-130	H	%Rec	1	2/7/2023 9:30:00 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	8700	300		mg/Kg	100	2/8/2023 8:48:07 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-111 20'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 11:50:00 AM

Lab ID: 2302198-014

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	13	H	mg/Kg	1	2/7/2023 8:10:18 PM
Motor Oil Range Organics (MRO)	ND	44	H	mg/Kg	1	2/7/2023 8:10:18 PM
Surr: DNOP	104	69-147	H	%Rec	1	2/7/2023 8:10:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	H	mg/Kg	1	2/7/2023 10:29:00 PM
Surr: BFB	94.9	37.7-212	H	%Rec	1	2/7/2023 10:29:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024	H	mg/Kg	1	2/7/2023 10:29:00 PM
Toluene	ND	0.049	H	mg/Kg	1	2/7/2023 10:29:00 PM
Ethylbenzene	ND	0.049	H	mg/Kg	1	2/7/2023 10:29:00 PM
Xylenes, Total	ND	0.097	H	mg/Kg	1	2/7/2023 10:29:00 PM
Surr: 4-Bromofluorobenzene	94.7	70-130	H	%Rec	1	2/7/2023 10:29:00 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	12000	600		mg/Kg	200	2/8/2023 9:00:32 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-111 30'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 12:00:00 PM

Lab ID: 2302198-015

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14	H	mg/Kg	1	2/7/2023 8:23:40 PM
Motor Oil Range Organics (MRO)	ND	47	H	mg/Kg	1	2/7/2023 8:23:40 PM
Surr: DNOP	102	69-147	H	%Rec	1	2/7/2023 8:23:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	H	mg/Kg	1	2/7/2023 10:49:00 PM
Surr: BFB	93.8	37.7-212	H	%Rec	1	2/7/2023 10:49:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025	H	mg/Kg	1	2/7/2023 10:49:00 PM
Toluene	ND	0.049	H	mg/Kg	1	2/7/2023 10:49:00 PM
Ethylbenzene	ND	0.049	H	mg/Kg	1	2/7/2023 10:49:00 PM
Xylenes, Total	ND	0.099	H	mg/Kg	1	2/7/2023 10:49:00 PM
Surr: 4-Bromofluorobenzene	93.7	70-130	H	%Rec	1	2/7/2023 10:49:00 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	5100	150		mg/Kg	50	2/8/2023 9:12:56 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-111 40'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 12:10:00 PM

Lab ID: 2302198-016

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15	H	mg/Kg	1	2/7/2023 8:36:58 PM
Motor Oil Range Organics (MRO)	ND	49	H	mg/Kg	1	2/7/2023 8:36:58 PM
Surr: DNOP	102	69-147	H	%Rec	1	2/7/2023 8:36:58 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	H	mg/Kg	1	2/7/2023 11:09:00 PM
Surr: BFB	93.1	37.7-212	H	%Rec	1	2/7/2023 11:09:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024	H	mg/Kg	1	2/7/2023 11:09:00 PM
Toluene	ND	0.049	H	mg/Kg	1	2/7/2023 11:09:00 PM
Ethylbenzene	ND	0.049	H	mg/Kg	1	2/7/2023 11:09:00 PM
Xylenes, Total	ND	0.098	H	mg/Kg	1	2/7/2023 11:09:00 PM
Surr: 4-Bromofluorobenzene	91.5	70-130	H	%Rec	1	2/7/2023 11:09:00 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	9700	300		mg/Kg	100	2/8/2023 9:25:20 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-112 10'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 12:20:00 PM

Lab ID: 2302198-017

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15	H	mg/Kg	1	2/7/2023 8:50:32 PM
Motor Oil Range Organics (MRO)	ND	49	H	mg/Kg	1	2/7/2023 8:50:32 PM
Surr: DNOP	101	69-147	H	%Rec	1	2/7/2023 8:50:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	H	mg/Kg	1	2/7/2023 11:28:00 PM
Surr: BFB	92.5	37.7-212	H	%Rec	1	2/7/2023 11:28:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024	H	mg/Kg	1	2/7/2023 11:28:00 PM
Toluene	ND	0.049	H	mg/Kg	1	2/7/2023 11:28:00 PM
Ethylbenzene	ND	0.049	H	mg/Kg	1	2/7/2023 11:28:00 PM
Xylenes, Total	ND	0.098	H	mg/Kg	1	2/7/2023 11:28:00 PM
Surr: 4-Bromofluorobenzene	91.2	70-130	H	%Rec	1	2/7/2023 11:28:00 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	11000	600		mg/Kg	200	2/8/2023 9:37:45 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-112 20'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 12:30:00 PM

Lab ID: 2302198-018

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	15	H	mg/Kg	1	2/7/2023 9:03:56 PM
Motor Oil Range Organics (MRO)	ND	50	H	mg/Kg	1	2/7/2023 9:03:56 PM
Surr: DNOP	102	69-147	H	%Rec	1	2/7/2023 9:03:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	H	mg/Kg	1	2/7/2023 11:48:00 PM
Surr: BFB	93.0	37.7-212	H	%Rec	1	2/7/2023 11:48:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024	H	mg/Kg	1	2/7/2023 11:48:00 PM
Toluene	ND	0.048	H	mg/Kg	1	2/7/2023 11:48:00 PM
Ethylbenzene	ND	0.048	H	mg/Kg	1	2/7/2023 11:48:00 PM
Xylenes, Total	ND	0.096	H	mg/Kg	1	2/7/2023 11:48:00 PM
Surr: 4-Bromofluorobenzene	91.2	70-130	H	%Rec	1	2/7/2023 11:48:00 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	13000	600		mg/Kg	200	2/8/2023 9:50:10 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-112 30'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 12:40:00 PM

Lab ID: 2302198-019

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14	H	mg/Kg	1	2/7/2023 9:17:34 PM
Motor Oil Range Organics (MRO)	ND	46	H	mg/Kg	1	2/7/2023 9:17:34 PM
Surr: DNOP	103	69-147	H	%Rec	1	2/7/2023 9:17:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	H	mg/Kg	1	2/8/2023 12:07:00 AM
Surr: BFB	94.4	37.7-212	H	%Rec	1	2/8/2023 12:07:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024	H	mg/Kg	1	2/8/2023 12:07:00 AM
Toluene	ND	0.049	H	mg/Kg	1	2/8/2023 12:07:00 AM
Ethylbenzene	ND	0.049	H	mg/Kg	1	2/8/2023 12:07:00 AM
Xylenes, Total	ND	0.098	H	mg/Kg	1	2/8/2023 12:07:00 AM
Surr: 4-Bromofluorobenzene	92.4	70-130	H	%Rec	1	2/8/2023 12:07:00 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	3600	150		mg/Kg	50	2/8/2023 10:02:34 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302198

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-112 40'

Project: East Pecos Pipeline Spill

Collection Date: 1/23/2023 12:50:00 PM

Lab ID: 2302198-020

Matrix: SOIL

Received Date: 2/4/2023 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	14	H	mg/Kg	1	2/7/2023 9:30:59 PM
Motor Oil Range Organics (MRO)	ND	48	H	mg/Kg	1	2/7/2023 9:30:59 PM
Surr: DNOP	103	69-147	H	%Rec	1	2/7/2023 9:30:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	H	mg/Kg	1	2/8/2023 12:27:00 AM
Surr: BFB	92.9	37.7-212	H	%Rec	1	2/8/2023 12:27:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024	H	mg/Kg	1	2/8/2023 12:27:00 AM
Toluene	ND	0.049	H	mg/Kg	1	2/8/2023 12:27:00 AM
Ethylbenzene	ND	0.049	H	mg/Kg	1	2/8/2023 12:27:00 AM
Xylenes, Total	ND	0.098	H	mg/Kg	1	2/8/2023 12:27:00 AM
Surr: 4-Bromofluorobenzene	91.4	70-130	H	%Rec	1	2/8/2023 12:27:00 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	4700	150		mg/Kg	50	2/8/2023 10:39:49 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302198

13-Feb-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: MB-73004	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 73004		RunNo: 94417							
Prep Date: 2/4/2023	Analysis Date: 2/4/2023		SeqNo: 3411174		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73004	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 73004		RunNo: 94417							
Prep Date: 2/4/2023	Analysis Date: 2/4/2023		SeqNo: 3411175		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.4	90	110			

Sample ID: MB-73029	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 73029		RunNo: 94437							
Prep Date: 2/6/2023	Analysis Date: 2/6/2023		SeqNo: 3412127		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73029	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 73029		RunNo: 94437							
Prep Date: 2/6/2023	Analysis Date: 2/6/2023		SeqNo: 3412128		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.1	90	110			

Sample ID: MB-73043	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 73043		RunNo: 94445							
Prep Date: 2/7/2023	Analysis Date: 2/7/2023		SeqNo: 3413497		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73043	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 73043		RunNo: 94445							
Prep Date: 2/7/2023	Analysis Date: 2/7/2023		SeqNo: 3413498		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302198

13-Feb-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: MB-73030	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 73030		RunNo: 94448							
Prep Date: 2/6/2023	Analysis Date: 2/7/2023		SeqNo: 3413657		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		101	69	147			

Sample ID: LCS-73030	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 73030		RunNo: 94448							
Prep Date: 2/6/2023	Analysis Date: 2/7/2023		SeqNo: 3413658		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		97.8	69	147			

Sample ID: MB-73047	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 73047		RunNo: 94448							
Prep Date: 2/7/2023	Analysis Date: 2/7/2023		SeqNo: 3413672		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.7		10.00		97.1	69	147			

Sample ID: LCS-73047	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 73047		RunNo: 94448							
Prep Date: 2/7/2023	Analysis Date: 2/7/2023		SeqNo: 3413673		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	15	50.00	0	116	61.9	130			
Surr: DNOP	4.7		5.000		93.1	69	147			

Sample ID: 2302198-001AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH22-108 10'	Batch ID: 73047		RunNo: 94448							
Prep Date: 2/7/2023	Analysis Date: 2/7/2023		SeqNo: 3413675		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	14	47.08	8.381	96.0	54.2	135			H
Surr: DNOP	4.6		4.708		97.0	69	147			H

Sample ID: 2302198-001AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH22-108 10'	Batch ID: 73047		RunNo: 94448							
Prep Date: 2/7/2023	Analysis Date: 2/7/2023		SeqNo: 3413676		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	14	47.30	8.381	96.8	54.2	135	1.11	29.2	H

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2302198
13-Feb-23

Client: Vertex Resources Services, Inc.
Project: East Pecos Pipeline Spill

Sample ID: 2302198-001AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH22-108 10'		Batch ID: 73047		RunNo: 94448						
Prep Date: 2/7/2023		Analysis Date: 2/7/2023		SeqNo: 3413676		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		4.730		99.6	69	147	0	0	H

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
D	Sample Diluted Due to Matrix
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
PQL	Practical Quantitative Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302198

13-Feb-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: ics-73003	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 73003	RunNo: 94442								
Prep Date: 2/4/2023	Analysis Date: 2/7/2023	SeqNo: 3413257 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.2	72.3	137			
Surr: BFB	1100		1000		110	37.7	212			

Sample ID: mb-73003	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 73003	RunNo: 94442								
Prep Date: 2/4/2023	Analysis Date: 2/7/2023	SeqNo: 3413258 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		96.7	37.7	212			

Sample ID: 2302198-001AMS	SampType: MS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-108 10'	Batch ID: 73003	RunNo: 94442								
Prep Date: 2/4/2023	Analysis Date: 2/7/2023	SeqNo: 3413260 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.83	0	101	70	130			H
Surr: BFB	1100		953.3		113	37.7	212			H

Sample ID: 2302198-001AMSD	SampType: MSD	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BH22-108 10'	Batch ID: 73003	RunNo: 94442								
Prep Date: 2/4/2023	Analysis Date: 2/7/2023	SeqNo: 3413261 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.95	0	102	70	130	1.35	20	H
Surr: BFB	1000		957.9		105	37.7	212	0	0	H

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302198

13-Feb-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: ics-73003	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 73003		RunNo: 94442							
Prep Date: 2/4/2023	Analysis Date: 2/7/2023		SeqNo: 3413303		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.7	80	120			
Toluene	0.96	0.050	1.000	0	96.4	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.0	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.2	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	70	130			

Sample ID: mb-73003	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 73003		RunNo: 94442							
Prep Date: 2/4/2023	Analysis Date: 2/7/2023		SeqNo: 3413304		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.6	70	130			

Sample ID: 2302198-002AMS	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-108 20'	Batch ID: 73003		RunNo: 94442							
Prep Date: 2/4/2023	Analysis Date: 2/7/2023		SeqNo: 3413307		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9671	0	95.1	68.8	120			H
Toluene	0.93	0.048	0.9671	0	96.1	73.6	124			H
Ethylbenzene	0.92	0.048	0.9671	0	94.7	72.7	129			H
Xylenes, Total	2.7	0.097	2.901	0	94.2	75.7	126			H
Surr: 4-Bromofluorobenzene	0.90		0.9671		93.4	70	130			H

Sample ID: 2302198-002AMSD	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH22-108 20'	Batch ID: 73003		RunNo: 94442							
Prep Date: 2/4/2023	Analysis Date: 2/7/2023		SeqNo: 3413308		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	0.9823	0	93.7	68.8	120	0.147	20	H
Toluene	0.92	0.049	0.9823	0	93.8	73.6	124	0.797	20	H
Ethylbenzene	0.91	0.049	0.9823	0	92.5	72.7	129	0.732	20	H
Xylenes, Total	2.7	0.098	2.947	0	92.3	75.7	126	0.451	20	H
Surr: 4-Bromofluorobenzene	0.92		0.9823		93.2	70	130	0	0	H

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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

Sample Log-In Check List

Client Name: Vertex Resources
Services, Inc.

Work Order Number: 2302198

RcptNo: 1

Received By: Cheyenne Cason 2/4/2023 9:00:00 AM

Completed By: Cheyenne Cason 2/4/2023 9:09:20 AM

Reviewed By: *me* 02/04/2023

me

me

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *me* 2/4/23

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

Client Information incomplete on COC - CMC 2/4/23

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Not Present	Morty		
2	0.6	Good	Not Present	Morty		

Chain-of-Custody Record

Client: Devon (Vertex)Mailing Address: on file

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
4/23/23	09:40	Soil	BH22-108	402 Jar	Ice	2302198
	09:50		BH22-108			202
	10:00		BH22-108			203
	10:10		BH22-108			204
	10:20		BH22-109			205
	10:30		BH22-109			206
	10:40		BH22-109			207
	10:50		BH22-109			208
	11:00		BH22-110			209
	11:10		BH22-110			210
	11:20		BH22-110			211
	11:30		BH22-110			212

Date: 4/23/23 Time: 12:26Relinquished by: S. RetaDate: 4/23/23 Time: 1900Relinquished by: [Signature]Received by: [Signature]Via: on fileReceived by: on fileVia: on fileDate: 2/14/23 Time: 0900

Turn-Around Time:

☐ Standard ☒ Rush 48 hrs

Project Name:

East Pecos Pipeline Spill

Project #:

22E-03982

Project Manager:

Monica Pappin

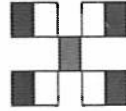
Sampler:

HROn Ice: ☒ Yes ☐ No Marty# of Coolers: 2 1, 3-0-1.3Cooler Temp (including CFY): 0.6-0-0.6 (°C)

Container Type and #

Preservative Type

HEAL No.

402 JarIce2302198202203204205206207208209210211212Date: 2/14/23 Time: 1210Received by: [Signature]Via: on fileReceived by: on fileDate: 2/14/23 Time: 0900Relinquished by: on fileHALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

(BTEX / MTBE / TMB's (8021)

(TPH/8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

(Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Remarks: Direct Bill to Devon

Chain-of-Custody Record

Client: Debon (Vertex)Mailing Address: on file

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

☐ Standard ☒ Rush 48 Hrs

Project Name:

East Pecos Pipeline Spill

Project #:

225-03982

Project Manager:

Monica Peppin

Sampler:

HR

On Ice:

☒ Yes ☐ No Moist# of Coolers: 2 1, 3-0=1.3Cooler Temp (including CF): 0.6-0=0.6 (°C)

Container Type and #

Preservative Type

HEAL No.

Date

Time

Sample Name

Matrix

Date

Time

Sample Name

Matrix

Date

Time

Sample Name

Matrix

Date

Time

Sample Name

Matrix

Date

Time

Sample Name

Matrix

Date

Time

Sample Name

Matrix

Date

Time

Relinquished by:

S. Rota

Relinquished by:

[Signature]

Received by:

[Signature]

Received by:

[Signature]

Date

4/23/23

Date

4/23/23

Via:

[Signature]

Via:

[Signature]

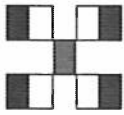
Time

12:26

Time

0900

Remarks:

Direct Bill to DebonHALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

TPH8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

CH F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)



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

February 13, 2023

Monica Peppin

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (575) 748-0176

FAX

RE: East Pecos

OrderNo.: 2302264

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 40 sample(s) on 2/7/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-07 0'

Project: East Pecos

Collection Date: 2/3/2023 12:05:00 PM

Lab ID: 2302264-001

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	2700	94		mg/Kg	10	2/9/2023 6:22:09 AM
Motor Oil Range Organics (MRO)	1200	470		mg/Kg	10	2/9/2023 6:22:09 AM
Surr: DNOP	0	69-147	S	%Rec	10	2/9/2023 6:22:09 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/8/2023 1:05:44 PM
Surr: BFB	112	37.7-212		%Rec	1	2/8/2023 1:05:44 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/8/2023 1:05:44 PM
Toluene	ND	0.050		mg/Kg	1	2/8/2023 1:05:44 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/8/2023 1:05:44 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/8/2023 1:05:44 PM
Surr: 4-Bromofluorobenzene	83.0	70-130		%Rec	1	2/8/2023 1:05:44 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	13000	600		mg/Kg	200	2/9/2023 8:38:53 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-07 2'

Project: East Pecos

Collection Date: 2/3/2023 12:10:00 PM

Lab ID: 2302264-002

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/9/2023 4:54:50 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/9/2023 4:54:50 PM
Surr: DNOP	100	69-147		%Rec	1	2/9/2023 4:54:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/8/2023 1:29:26 PM
Surr: BFB	118	37.7-212		%Rec	1	2/8/2023 1:29:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/8/2023 1:29:26 PM
Toluene	ND	0.049		mg/Kg	1	2/8/2023 1:29:26 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/8/2023 1:29:26 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/8/2023 1:29:26 PM
Surr: 4-Bromofluorobenzene	86.0	70-130		%Rec	1	2/8/2023 1:29:26 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	9700	600		mg/Kg	200	2/9/2023 8:51:18 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-07 4'

Project: East Pecos

Collection Date: 2/3/2023 12:15:00 PM

Lab ID: 2302264-003

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/9/2023 5:18:51 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/9/2023 5:18:51 PM
Surr: DNOP	104	69-147		%Rec	1	2/9/2023 5:18:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/8/2023 1:53:09 PM
Surr: BFB	100	37.7-212		%Rec	1	2/8/2023 1:53:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/8/2023 1:53:09 PM
Toluene	ND	0.050		mg/Kg	1	2/8/2023 1:53:09 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/8/2023 1:53:09 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/8/2023 1:53:09 PM
Surr: 4-Bromofluorobenzene	83.5	70-130		%Rec	1	2/8/2023 1:53:09 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	10000	600		mg/Kg	200	2/9/2023 9:03:42 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-116 0'

Project: East Pecos

Collection Date: 2/3/2023 9:00:00 AM

Lab ID: 2302264-004

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/9/2023 5:43:07 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/9/2023 5:43:07 PM
Surr: DNOP	116	69-147		%Rec	1	2/9/2023 5:43:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/8/2023 2:16:51 PM
Surr: BFB	103	37.7-212		%Rec	1	2/8/2023 2:16:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/8/2023 2:16:51 PM
Toluene	ND	0.050		mg/Kg	1	2/8/2023 2:16:51 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/8/2023 2:16:51 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/8/2023 2:16:51 PM
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	2/8/2023 2:16:51 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	260	60		mg/Kg	20	2/8/2023 4:28:37 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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

March 08, 2023

Monica Peppin

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (505) 350-1336

FAX:

RE: East Pecos

OrderNo.: 2302A68

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 12 sample(s) on 2/24/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2302A68

Date Reported: 3/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-132 0'

Project: East Pecos

Collection Date: 2/22/2023 10:00:00 AM

Lab ID: 2302A68-001

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/2/2023 10:48:17 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/2/2023 10:48:17 PM
Surr: DNOP	97.3	69-147		%Rec	1	3/2/2023 10:48:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/3/2023 10:41:00 PM
Surr: BFB	85.2	37.7-212		%Rec	1	3/3/2023 10:41:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/3/2023 10:41:00 PM
Toluene	ND	0.049		mg/Kg	1	3/3/2023 10:41:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/3/2023 10:41:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/3/2023 10:41:00 PM
Surr: 4-Bromofluorobenzene	89.9	70-130		%Rec	1	3/3/2023 10:41:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	3/2/2023 6:23:38 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302A68

Date Reported: 3/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-132 2'

Project: East Pecos

Collection Date: 2/22/2023 10:05:00 AM

Lab ID: 2302A68-002

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/2/2023 11:12:16 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/2/2023 11:12:16 PM
Surr: DNOP	117	69-147		%Rec	1	3/2/2023 11:12:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/3/2023 11:03:00 PM
Surr: BFB	87.9	37.7-212		%Rec	1	3/3/2023 11:03:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/3/2023 11:03:00 PM
Toluene	ND	0.049		mg/Kg	1	3/3/2023 11:03:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/3/2023 11:03:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/3/2023 11:03:00 PM
Surr: 4-Bromofluorobenzene	89.1	70-130		%Rec	1	3/3/2023 11:03:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	3/2/2023 7:00:40 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302A68

Date Reported: 3/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-133 0'

Project: East Pecos

Collection Date: 2/22/2023 10:10:00 AM

Lab ID: 2302A68-003

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	3/2/2023 11:36:38 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/2/2023 11:36:38 PM
Surr: DNOP	123	69-147		%Rec	1	3/2/2023 11:36:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/3/2023 11:25:00 PM
Surr: BFB	88.4	37.7-212		%Rec	1	3/3/2023 11:25:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/3/2023 11:25:00 PM
Toluene	ND	0.050		mg/Kg	1	3/3/2023 11:25:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/3/2023 11:25:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/3/2023 11:25:00 PM
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	1	3/3/2023 11:25:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	3/2/2023 7:37:43 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302A68

Date Reported: 3/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-133 2'

Project: East Pecos

Collection Date: 2/22/2023 10:15:00 AM

Lab ID: 2302A68-004

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/2/2023 10:18:52 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/2/2023 10:18:52 AM
Surr: DNOP	105	69-147		%Rec	1	3/2/2023 10:18:52 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/3/2023 11:46:00 PM
Surr: BFB	89.4	37.7-212		%Rec	1	3/3/2023 11:46:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/3/2023 11:46:00 PM
Toluene	ND	0.049		mg/Kg	1	3/3/2023 11:46:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/3/2023 11:46:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/3/2023 11:46:00 PM
Surr: 4-Bromofluorobenzene	92.5	70-130		%Rec	1	3/3/2023 11:46:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	400	60		mg/Kg	20	3/2/2023 7:50:04 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302A68

Date Reported: 3/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-134 0'

Project: East Pecos

Collection Date: 2/22/2023 10:20:00 AM

Lab ID: 2302A68-005

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/2/2023 11:31:30 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/2/2023 11:31:30 AM
Surr: DNOP	121	69-147		%Rec	1	3/2/2023 11:31:30 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/4/2023 12:08:00 AM
Surr: BFB	90.6	37.7-212		%Rec	1	3/4/2023 12:08:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	3/4/2023 12:08:00 AM
Toluene	ND	0.049		mg/Kg	1	3/4/2023 12:08:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/4/2023 12:08:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	3/4/2023 12:08:00 AM
Surr: 4-Bromofluorobenzene	92.1	70-130		%Rec	1	3/4/2023 12:08:00 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	360	61		mg/Kg	20	3/2/2023 8:27:04 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302A68

Date Reported: 3/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-134 2'

Project: East Pecos

Collection Date: 2/22/2023 10:25:00 AM

Lab ID: 2302A68-006

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/2/2023 11:55:36 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/2/2023 11:55:36 AM
Surr: DNOP	114	69-147		%Rec	1	3/2/2023 11:55:36 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	850	60		mg/Kg	20	3/2/2023 8:39:25 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	2/28/2023 7:49:51 PM
Toluene	ND	0.048		mg/Kg	1	2/28/2023 7:49:51 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/28/2023 7:49:51 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/28/2023 7:49:51 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	2/28/2023 7:49:51 PM
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	2/28/2023 7:49:51 PM
Surr: Dibromofluoromethane	98.1	70-130		%Rec	1	2/28/2023 7:49:51 PM
Surr: Toluene-d8	95.5	70-130		%Rec	1	2/28/2023 7:49:51 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/28/2023 7:49:51 PM
Surr: BFB	102	70-130		%Rec	1	2/28/2023 7:49:51 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302A68

Date Reported: 3/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-135 0'

Project: East Pecos

Collection Date: 2/22/2023 10:30:00 AM

Lab ID: 2302A68-007

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/2/2023 12:19:50 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/2/2023 12:19:50 PM
Surr: DNOP	101	69-147		%Rec	1	3/2/2023 12:19:50 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	ND	60		mg/Kg	20	3/2/2023 8:51:46 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	2/28/2023 8:17:04 PM
Toluene	ND	0.050		mg/Kg	1	2/28/2023 8:17:04 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/28/2023 8:17:04 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/28/2023 8:17:04 PM
Surr: 1,2-Dichloroethane-d4	90.7	70-130		%Rec	1	2/28/2023 8:17:04 PM
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	2/28/2023 8:17:04 PM
Surr: Dibromofluoromethane	96.6	70-130		%Rec	1	2/28/2023 8:17:04 PM
Surr: Toluene-d8	96.2	70-130		%Rec	1	2/28/2023 8:17:04 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/28/2023 8:17:04 PM
Surr: BFB	103	70-130		%Rec	1	2/28/2023 8:17:04 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302A68

Date Reported: 3/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-135 2'

Project: East Pecos

Collection Date: 2/22/2023 10:35:00 AM

Lab ID: 2302A68-008

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/2/2023 12:43:55 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/2/2023 12:43:55 PM
Surr: DNOP	128	69-147		%Rec	1	3/2/2023 12:43:55 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	720	60		mg/Kg	20	3/2/2023 9:04:06 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	2/28/2023 8:44:14 PM
Toluene	ND	0.048		mg/Kg	1	2/28/2023 8:44:14 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/28/2023 8:44:14 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/28/2023 8:44:14 PM
Surr: 1,2-Dichloroethane-d4	90.7	70-130		%Rec	1	2/28/2023 8:44:14 PM
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	2/28/2023 8:44:14 PM
Surr: Dibromofluoromethane	98.1	70-130		%Rec	1	2/28/2023 8:44:14 PM
Surr: Toluene-d8	97.1	70-130		%Rec	1	2/28/2023 8:44:14 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/28/2023 8:44:14 PM
Surr: BFB	102	70-130		%Rec	1	2/28/2023 8:44:14 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302A68

Date Reported: 3/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-136 0'

Project: East Pecos

Collection Date: 2/22/2023 10:40:00 AM

Lab ID: 2302A68-009

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	3/2/2023 1:08:05 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/2/2023 1:08:05 PM
Surr: DNOP	101	69-147		%Rec	1	3/2/2023 1:08:05 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	120	60		mg/Kg	20	3/2/2023 9:16:27 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	2/28/2023 11:27:11 PM
Toluene	ND	0.049		mg/Kg	1	2/28/2023 11:27:11 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/28/2023 11:27:11 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/28/2023 11:27:11 PM
Surr: 1,2-Dichloroethane-d4	89.4	70-130		%Rec	1	2/28/2023 11:27:11 PM
Surr: 4-Bromofluorobenzene	97.8	70-130		%Rec	1	2/28/2023 11:27:11 PM
Surr: Dibromofluoromethane	95.3	70-130		%Rec	1	2/28/2023 11:27:11 PM
Surr: Toluene-d8	95.9	70-130		%Rec	1	2/28/2023 11:27:11 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/28/2023 11:27:11 PM
Surr: BFB	102	70-130		%Rec	1	2/28/2023 11:27:11 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302A68

Date Reported: 3/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-136 2'

Project: East Pecos

Collection Date: 2/22/2023 10:45:00 AM

Lab ID: 2302A68-010

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/2/2023 1:32:10 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/2/2023 1:32:10 PM
Surr: DNOP	109	69-147		%Rec	1	3/2/2023 1:32:10 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	850	59		mg/Kg	20	3/2/2023 9:28:48 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JR
Benzene	ND	0.024		mg/Kg	1	2/28/2023 11:54:21 PM
Toluene	ND	0.048		mg/Kg	1	2/28/2023 11:54:21 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/28/2023 11:54:21 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/28/2023 11:54:21 PM
Surr: 1,2-Dichloroethane-d4	93.5	70-130		%Rec	1	2/28/2023 11:54:21 PM
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	2/28/2023 11:54:21 PM
Surr: Dibromofluoromethane	97.2	70-130		%Rec	1	2/28/2023 11:54:21 PM
Surr: Toluene-d8	98.4	70-130		%Rec	1	2/28/2023 11:54:21 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/28/2023 11:54:21 PM
Surr: BFB	106	70-130		%Rec	1	2/28/2023 11:54:21 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302A68

Date Reported: 3/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-137 0'

Project: East Pecos

Collection Date: 2/22/2023 10:50:00 AM

Lab ID: 2302A68-011

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	3/2/2023 1:41:01 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/2/2023 1:41:01 AM
Surr: DNOP	122	69-147		%Rec	1	3/2/2023 1:41:01 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/3/2023 6:15:57 AM
Surr: BFB	99.8	37.7-212		%Rec	1	3/3/2023 6:15:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/3/2023 6:15:00 AM
Toluene	ND	0.050		mg/Kg	1	3/3/2023 6:15:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/3/2023 6:15:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	3/3/2023 6:15:00 AM
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	3/3/2023 6:15:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	59		mg/Kg	20	3/2/2023 12:23:45 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302A68

Date Reported: 3/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-137 2'

Project: East Pecos

Collection Date: 2/22/2023 10:55:00 AM

Lab ID: 2302A68-012

Matrix: SOIL

Received Date: 2/24/2023 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/3/2023 12:30:40 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/3/2023 12:30:40 PM
Surr: DNOP	93.4	69-147		%Rec	1	3/3/2023 12:30:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/4/2023 2:17:00 AM
Surr: BFB	91.5	37.7-212		%Rec	1	3/4/2023 2:17:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/4/2023 2:17:00 AM
Toluene	ND	0.050		mg/Kg	1	3/4/2023 2:17:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/4/2023 2:17:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	3/4/2023 2:17:00 AM
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	3/4/2023 2:17:00 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	490	60		mg/Kg	20	3/2/2023 9:41:08 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302A68

08-Mar-23

Client: Devon Energy**Project:** East Pecos

Sample ID: MB-73467	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 73467		RunNo: 94974							
Prep Date: 3/1/2023	Analysis Date: 3/1/2023		SeqNo: 3433861		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73467	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 73467		RunNo: 94974							
Prep Date: 3/1/2023	Analysis Date: 3/1/2023		SeqNo: 3433862		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

Sample ID: MB-73490	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 73490		RunNo: 94984							
Prep Date: 3/2/2023	Analysis Date: 3/2/2023		SeqNo: 3435083		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73490	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 73490		RunNo: 94984							
Prep Date: 3/2/2023	Analysis Date: 3/2/2023		SeqNo: 3435084		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302A68

08-Mar-23

Client: Devon Energy**Project:** East Pecos

Sample ID: MB-73436	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73436	RunNo: 94952								
Prep Date: 2/28/2023	Analysis Date: 3/1/2023	SeqNo: 3433068 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.3	69	147			

Sample ID: LCS-73436	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73436	RunNo: 94952								
Prep Date: 2/28/2023	Analysis Date: 3/1/2023	SeqNo: 3433069 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.8	61.9	130			
Surr: DNOP	4.6		5.000		92.6	69	147			

Sample ID: 2302A68-004AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-133 2'	Batch ID: 73470	RunNo: 94981								
Prep Date: 3/1/2023	Analysis Date: 3/2/2023	SeqNo: 3434717 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.2	46.17	0	92.8	54.2	135			
Surr: DNOP	4.4		4.617		96.1	69	147			

Sample ID: 2302A68-004AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-133 2'	Batch ID: 73470	RunNo: 94981								
Prep Date: 3/1/2023	Analysis Date: 3/2/2023	SeqNo: 3434718 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.4	46.77	0	98.0	54.2	135	6.70	29.2	
Surr: DNOP	4.6		4.677		99.1	69	147	0	0	

Sample ID: LCS-73460	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73460	RunNo: 94981								
Prep Date: 3/1/2023	Analysis Date: 3/2/2023	SeqNo: 3434725 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	61.9	130			
Surr: DNOP	5.4		5.000		108	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302A68

08-Mar-23

Client: Devon Energy**Project:** East Pecos

Sample ID: LCS-73470	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 73470		RunNo: 94981							
Prep Date: 3/1/2023	Analysis Date: 3/2/2023		SeqNo: 3434726		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.5	61.9	130			
Surr: DNOP	4.3		5.000		86.9	69	147			

Sample ID: MB-73460	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 73460		RunNo: 94981							
Prep Date: 3/1/2023	Analysis Date: 3/2/2023		SeqNo: 3434727		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		105	69	147			

Sample ID: MB-73470	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 73470		RunNo: 94981							
Prep Date: 3/1/2023	Analysis Date: 3/2/2023		SeqNo: 3434728		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		102	69	147			

Sample ID: LCS-73482	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 73482		RunNo: 95019							
Prep Date: 3/2/2023	Analysis Date: 3/3/2023		SeqNo: 3435788		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.8	61.9	130			
Surr: DNOP	4.2		5.000		84.9	69	147			

Sample ID: MB-73482	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 73482		RunNo: 95019							
Prep Date: 3/2/2023	Analysis Date: 3/3/2023		SeqNo: 3435791		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.6		10.00		86.3	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302A68

08-Mar-23

Client: Devon Energy**Project:** East Pecos

Sample ID: 2302A68-012AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-137 2'	Batch ID: 73482	RunNo: 95019								
Prep Date: 3/2/2023	Analysis Date: 3/3/2023	SeqNo: 3436785	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	9.3	46.69	0	80.9	54.2	135			
Surr: DNOP	4.1		4.669		87.9	69	147			

Sample ID: 2302A68-012AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-137 2'	Batch ID: 73482	RunNo: 95019								
Prep Date: 3/2/2023	Analysis Date: 3/3/2023	SeqNo: 3436786	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.4	47.17	0	92.9	54.2	135	14.8	29.2	
Surr: DNOP	4.6		4.717		96.8	69	147	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302A68

08-Mar-23

Client: Devon Energy**Project:** East Pecos

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: GS94977		RunNo: 94977							
Prep Date:	Analysis Date: 3/2/2023		SeqNo: 3433961		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		199	37.7	212			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: GS94977		RunNo: 94977							
Prep Date:	Analysis Date: 3/2/2023		SeqNo: 3433962		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		103	37.7	212			

Sample ID: lcs-73430	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 73430		RunNo: 94977							
Prep Date: 2/28/2023	Analysis Date: 3/2/2023		SeqNo: 3435300		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.6	72.3	137			
Surr: BFB	2000		1000		197	37.7	212			

Sample ID: MB-73430	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 73430		RunNo: 94977							
Prep Date: 2/28/2023	Analysis Date: 3/2/2023		SeqNo: 3435301		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	37.7	212			

Sample ID: lcs-73374	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 73374		RunNo: 95021							
Prep Date: 2/24/2023	Analysis Date: 3/3/2023		SeqNo: 3435872		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		197	37.7	212			

Sample ID: mb-73374	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 73374		RunNo: 95021							
Prep Date: 2/24/2023	Analysis Date: 3/3/2023		SeqNo: 3435873		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		103	37.7	212			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302A68

08-Mar-23

Client: Devon Energy**Project:** East Pecos

Sample ID: ics-73373	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 73373			RunNo: 95008						
Prep Date: 2/24/2023	Analysis Date: 3/3/2023			SeqNo: 3436374		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.5	72.3	137			
Surr: BFB	2100		1000		208	37.7	212			

Sample ID: mb-73373	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 73373			RunNo: 95008						
Prep Date: 2/24/2023	Analysis Date: 3/3/2023			SeqNo: 3436375		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		87.6	37.7	212			

Sample ID: ics-73472	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 73472			RunNo: 95008						
Prep Date: 3/2/2023	Analysis Date: 3/4/2023			SeqNo: 3436398		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	78.2	72.3	137			
Surr: BFB	1800		1000		176	37.7	212			

Sample ID: mb-73472	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 73472			RunNo: 95008						
Prep Date: 3/2/2023	Analysis Date: 3/4/2023			SeqNo: 3436399		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		90.7	37.7	212			

Sample ID: 2302A68-012ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH22-137 2'	Batch ID: 73472			RunNo: 95008						
Prep Date: 3/2/2023	Analysis Date: 3/4/2023			SeqNo: 3436401		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	24.75	0	89.7	70	130			
Surr: BFB	1900		990.1		194	37.7	212			

Sample ID: 2302A68-012amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH22-137 2'	Batch ID: 73472			RunNo: 95008						
Prep Date: 3/2/2023	Analysis Date: 3/4/2023			SeqNo: 3436402		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302A68

08-Mar-23

Client: Devon Energy

Project: East Pecos

Sample ID: 2302A68-012amsd		SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH22-137 2'		Batch ID: 73472			RunNo: 95008					
Prep Date: 3/2/2023		Analysis Date: 3/4/2023			SeqNo: 3436402		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.73	0	88.8	70	130	1.08	20	
Surr: BFB	2000		989.1		197	37.7	212	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302A68

08-Mar-23

Client: Devon Energy**Project:** East Pecos

Sample ID: 100ng btex lcs	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: R94977		RunNo: 94977							
Prep Date:	Analysis Date: 3/2/2023		SeqNo: 3433969		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.93		1.000		92.8	70	130			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: R94977		RunNo: 94977							
Prep Date:	Analysis Date: 3/2/2023		SeqNo: 3433970		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		91.8	70	130			

Sample ID: LCS-73430	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 73430		RunNo: 94977							
Prep Date: 2/28/2023	Analysis Date: 3/2/2023		SeqNo: 3435356		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	1.000	0	81.9	80	120			
Toluene	0.85	0.050	1.000	0	85.3	80	120			
Ethylbenzene	0.84	0.050	1.000	0	84.1	80	120			
Xylenes, Total	2.5	0.10	3.000	0	84.8	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.5	70	130			

Sample ID: MB-73430	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 73430		RunNo: 94977							
Prep Date: 2/28/2023	Analysis Date: 3/2/2023		SeqNo: 3435357		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		91.4	70	130			

Sample ID: LCS-73374	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 73374		RunNo: 95021							
Prep Date: 2/24/2023	Analysis Date: 3/3/2023		SeqNo: 3435881		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.95		1.000		94.6	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302A68

08-Mar-23

Client: Devon Energy**Project:** East Pecos

Sample ID: mb-73374	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 73374				RunNo: 95021					
Prep Date: 2/24/2023	Analysis Date: 3/3/2023				SeqNo: 3435882	Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.93		1.000		93.1	70	130			

Sample ID: lcs-73373	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 73373				RunNo: 95008					
Prep Date: 2/24/2023	Analysis Date: 3/3/2023				SeqNo: 3436437	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.6	80	120			
Toluene	0.93	0.050	1.000	0	93.0	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.5	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.8	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.4	70	130			

Sample ID: mb-73373	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 73373				RunNo: 95008					
Prep Date: 2/24/2023	Analysis Date: 3/3/2023				SeqNo: 3436438	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		88.5	70	130			

Sample ID: lcs-73472	SampType: LCS				TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 73472				RunNo: 95008					
Prep Date: 3/2/2023	Analysis Date: 3/4/2023				SeqNo: 3436461	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	83.5	80	120			
Toluene	0.83	0.050	1.000	0	83.2	80	120			
Ethylbenzene	0.82	0.050	1.000	0	81.8	80	120			
Xylenes, Total	2.4	0.10	3.000	0	81.0	80	120			
Surr: 4-Bromofluorobenzene	0.92		1.000		92.0	70	130			

Sample ID: mb-73472	SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID: 73472				RunNo: 95008					
Prep Date: 3/2/2023	Analysis Date: 3/4/2023				SeqNo: 3436462	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302A68

08-Mar-23

Client: Devon Energy

Project: East Pecos

Sample ID: mb-73472	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 73472	RunNo: 95008								
Prep Date: 3/2/2023	Analysis Date: 3/4/2023	SeqNo: 3436462	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		90.9	70	130			

- Qualifiers:
- *

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

- B

Analyte detected in the associated Method Blank
- E

Above Quantitation Range/Estimated Value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302A68

08-Mar-23

Client: Devon Energy**Project:** East Pecos

Sample ID: ics-73404	SampType: LCS4		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: BatchQC	Batch ID: 73404		RunNo: 94927							
Prep Date: 2/27/2023	Analysis Date: 2/28/2023		SeqNo: 3431736		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	1.000	0	82.0	80	120			
Toluene	0.94	0.050	1.000	0	94.0	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.1	80	120			
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.1	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		94.5	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		95.3	70	130			
Surr: Toluene-d8	0.50		0.5000		99.6	70	130			

Sample ID: mb-73404	SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List							
Client ID: PBS	Batch ID: 73404		RunNo: 94927							
Prep Date: 2/27/2023	Analysis Date: 2/28/2023		SeqNo: 3431737		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.1	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		97.1	70	130			
Surr: Toluene-d8	0.49		0.5000		98.7	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302A68

08-Mar-23

Client: Devon Energy

Project: East Pecos

Sample ID: Ics-73404	SampType: LCS			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: LCSS	Batch ID: 73404			RunNo: 94927						
Prep Date: 2/27/2023	Analysis Date: 2/28/2023			SeqNo: 3431792		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	78.4	70	130			
Surr: BFB	500		500.0		99.4	70	130			

Sample ID: mb-73404	SampType: MBLK			TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID: PBS	Batch ID: 73404			RunNo: 94927						
Prep Date: 2/27/2023	Analysis Date: 2/28/2023			SeqNo: 3431793		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	530		500.0		105	70	130			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit



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

Sample Log-In Check List

Client Name: Devon Energy

Work Order Number: 2302A68

RcptNo: 1

Received By: Tracy Casarrubias 2/24/2023 7:28:00 AM

Completed By: Tracy Casarrubias 2/24/2023 8:33:07 AM

Reviewed By: *na 2/24/23*

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *na 2/24/23*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks: *Sample collection times noted by sample receiving on COC. ^W 2/24/23*

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes	Morty		

Chain-of-Custody Record

Client: Devon (Vertex)
MM155085ALRMM
 Mailing Address: On File

Phone #:
 email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Date	Time	Matrix	Sample Name
2/22/23	10:00	Soil	BH22-132 0'
	10:05		BH22-132 2'
	10:10		BH22-133 0'
	10:15		BH22-133 2'
	10:20		BH22-134 0'
	10:25		BH22-134 2'
	10:30		BH22-135 0'
	10:35		BH22-135 2'
	10:40		BH22-136 0'
	10:45		BH22-136 2'
	10:50		BH22-137 0'
	10:55		BH22-137 2'

Date: 2/22/23 Time: 4:15Relinquished by: Hunter KleinDate: 2/23/23 Time: 1900Relinquished by: Monica Peppin

Turn-Around Time:

☒ Standard ☒ Rush 5 Day

Project Name:

East Pecos

Project #:

22E-03982

Project Manager:

Monica PeppinSampler: Hunter KleinOn Ice: ☒ Yes ☐ No Marty# of Coolers: 1Cooler Temp (including CF): 2.4 - 0 = 2.4 (°C)

Container Type and #

Preservative Type

HEAL No.

2302A08

8081 Pesticides/8082 PCB's

TPH:8015D(GRO / DRO / MRO)

BTEX / MTBE / TMB's (8021)

RCRA 8 Metals

PAHs by 8310 or 8270SIMS

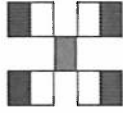
EDB (Method 504.1)

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Remarks:

CL Monica Peppin

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request



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

March 24, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: East Pecos Pipeline Spill

OrderNo.: 2303967

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 16 sample(s) on 3/18/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2303967

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-138 20'

Project: East Pecos Pipeline Spill

Collection Date: 3/15/2023 1:30:00 PM

Lab ID: 2303967-001

Matrix: SOIL

Received Date: 3/18/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/22/2023 1:36:15 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/22/2023 1:36:15 PM
Surr: DNOP	103	69-147		%Rec	1	3/22/2023 1:36:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/21/2023 10:18:44 AM
Surr: BFB	101	37.7-212		%Rec	1	3/21/2023 10:18:44 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/21/2023 10:18:44 AM
Toluene	ND	0.050		mg/Kg	1	3/21/2023 10:18:44 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/21/2023 10:18:44 AM
Xylenes, Total	ND	0.099		mg/Kg	1	3/21/2023 10:18:44 AM
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	3/21/2023 10:18:44 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	11000	600		mg/Kg	200	3/22/2023 11:00:44 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2303967

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-138 30'

Project: East Pecos Pipeline Spill

Collection Date: 3/15/2023 2:15:00 PM

Lab ID: 2303967-002

Matrix: SOIL

Received Date: 3/18/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	3/22/2023 2:00:27 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/22/2023 2:00:27 PM
Surr: DNOP	99.7	69-147		%Rec	1	3/22/2023 2:00:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/21/2023 10:42:20 AM
Surr: BFB	101	37.7-212		%Rec	1	3/21/2023 10:42:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/21/2023 10:42:20 AM
Toluene	ND	0.049		mg/Kg	1	3/21/2023 10:42:20 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/21/2023 10:42:20 AM
Xylenes, Total	ND	0.097		mg/Kg	1	3/21/2023 10:42:20 AM
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	3/21/2023 10:42:20 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	3100	150		mg/Kg	50	3/22/2023 11:13:09 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303967

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-138 40'

Project: East Pecos Pipeline Spill

Collection Date: 3/15/2023 3:15:00 PM

Lab ID: 2303967-003

Matrix: SOIL

Received Date: 3/18/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/22/2023 2:24:29 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/22/2023 2:24:29 PM
Surr: DNOP	105	69-147		%Rec	1	3/22/2023 2:24:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/21/2023 11:05:57 AM
Surr: BFB	103	37.7-212		%Rec	1	3/21/2023 11:05:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/21/2023 11:05:57 AM
Toluene	ND	0.047		mg/Kg	1	3/21/2023 11:05:57 AM
Ethylbenzene	ND	0.047		mg/Kg	1	3/21/2023 11:05:57 AM
Xylenes, Total	ND	0.094		mg/Kg	1	3/21/2023 11:05:57 AM
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	3/21/2023 11:05:57 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2400	60		mg/Kg	20	3/21/2023 5:02:13 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303967

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-138 45'

Project: East Pecos Pipeline Spill

Collection Date: 3/15/2023 3:55:00 PM

Lab ID: 2303967-004

Matrix: SOIL

Received Date: 3/18/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	3/22/2023 2:48:47 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	3/22/2023 2:48:47 PM
Surr: DNOP	96.2	69-147		%Rec	1	3/22/2023 2:48:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/21/2023 11:29:39 AM
Surr: BFB	101	37.7-212		%Rec	1	3/21/2023 11:29:39 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/21/2023 11:29:39 AM
Toluene	ND	0.048		mg/Kg	1	3/21/2023 11:29:39 AM
Ethylbenzene	ND	0.048		mg/Kg	1	3/21/2023 11:29:39 AM
Xylenes, Total	ND	0.096		mg/Kg	1	3/21/2023 11:29:39 AM
Surr: 4-Bromofluorobenzene	91.9	70-130		%Rec	1	3/21/2023 11:29:39 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2200	60		mg/Kg	20	3/21/2023 5:14:34 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303967

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-138 50'

Project: East Pecos Pipeline Spill

Collection Date: 3/15/2023 4:20:00 PM

Lab ID: 2303967-005

Matrix: SOIL

Received Date: 3/18/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/22/2023 12:53:46 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/22/2023 12:53:46 PM
Surr: DNOP	88.6	69-147		%Rec	1	3/22/2023 12:53:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/21/2023 11:53:20 AM
Surr: BFB	104	37.7-212		%Rec	1	3/21/2023 11:53:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/21/2023 11:53:20 AM
Toluene	ND	0.048		mg/Kg	1	3/21/2023 11:53:20 AM
Ethylbenzene	ND	0.048		mg/Kg	1	3/21/2023 11:53:20 AM
Xylenes, Total	ND	0.096		mg/Kg	1	3/21/2023 11:53:20 AM
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	3/21/2023 11:53:20 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	9800	300		mg/Kg	100	3/22/2023 11:25:34 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303967

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-139 20'

Project: East Pecos Pipeline Spill

Collection Date: 3/16/2023 10:50:00 AM

Lab ID: 2303967-006

Matrix: SOIL

Received Date: 3/18/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/22/2023 1:04:26 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/22/2023 1:04:26 PM
Surr: DNOP	90.8	69-147		%Rec	1	3/22/2023 1:04:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/21/2023 12:17:03 PM
Surr: BFB	103	37.7-212		%Rec	1	3/21/2023 12:17:03 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/21/2023 12:17:03 PM
Toluene	ND	0.049		mg/Kg	1	3/21/2023 12:17:03 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/21/2023 12:17:03 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/21/2023 12:17:03 PM
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	3/21/2023 12:17:03 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	7600	300		mg/Kg	100	3/22/2023 11:37:59 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303967

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-139 30'

Project: East Pecos Pipeline Spill

Collection Date: 3/16/2023 11:15:00 AM

Lab ID: 2303967-007

Matrix: SOIL

Received Date: 3/18/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	3/22/2023 1:15:07 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	3/22/2023 1:15:07 PM
Surr: DNOP	95.4	69-147		%Rec	1	3/22/2023 1:15:07 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/21/2023 12:40:49 PM
Surr: BFB	102	37.7-212		%Rec	1	3/21/2023 12:40:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/21/2023 12:40:49 PM
Toluene	ND	0.047		mg/Kg	1	3/21/2023 12:40:49 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/21/2023 12:40:49 PM
Xylenes, Total	ND	0.095		mg/Kg	1	3/21/2023 12:40:49 PM
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	3/21/2023 12:40:49 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	8100	300		mg/Kg	100	3/22/2023 11:50:23 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303967

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-139 40'

Project: East Pecos Pipeline Spill

Collection Date: 3/16/2023 11:45:00 AM

Lab ID: 2303967-008

Matrix: SOIL

Received Date: 3/18/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/22/2023 1:25:48 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/22/2023 1:25:48 PM
Surr: DNOP	103	69-147		%Rec	1	3/22/2023 1:25:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/21/2023 1:04:36 PM
Surr: BFB	101	37.7-212		%Rec	1	3/21/2023 1:04:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.023		mg/Kg	1	3/21/2023 1:04:36 PM
Toluene	ND	0.047		mg/Kg	1	3/21/2023 1:04:36 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/21/2023 1:04:36 PM
Xylenes, Total	ND	0.094		mg/Kg	1	3/21/2023 1:04:36 PM
Surr: 4-Bromofluorobenzene	91.2	70-130		%Rec	1	3/21/2023 1:04:36 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	4700	300		mg/Kg	100	3/22/2023 12:27:37 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303967

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-139 45'

Project: East Pecos Pipeline Spill

Collection Date: 3/16/2023 11:45:00 AM

Lab ID: 2303967-009

Matrix: SOIL

Received Date: 3/18/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	3/22/2023 1:36:32 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	3/22/2023 1:36:32 PM
Surr: DNOP	82.2	69-147		%Rec	1	3/22/2023 1:36:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/21/2023 1:28:22 PM
Surr: BFB	102	37.7-212		%Rec	1	3/21/2023 1:28:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/21/2023 1:28:22 PM
Toluene	ND	0.048		mg/Kg	1	3/21/2023 1:28:22 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/21/2023 1:28:22 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/21/2023 1:28:22 PM
Surr: 4-Bromofluorobenzene	91.9	70-130		%Rec	1	3/21/2023 1:28:22 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	3800	300		mg/Kg	100	3/22/2023 12:40:02 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2303967

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-140 25'

Project: East Pecos Pipeline Spill

Collection Date: 3/16/2023 1:45:00 PM

Lab ID: 2303967-010

Matrix: SOIL

Received Date: 3/18/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/22/2023 1:47:15 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/22/2023 1:47:15 PM
Surr: DNOP	93.0	69-147		%Rec	1	3/22/2023 1:47:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/21/2023 1:52:13 PM
Surr: BFB	100	37.7-212		%Rec	1	3/21/2023 1:52:13 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/21/2023 1:52:13 PM
Toluene	ND	0.048		mg/Kg	1	3/21/2023 1:52:13 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/21/2023 1:52:13 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/21/2023 1:52:13 PM
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	3/21/2023 1:52:13 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	5300	300		mg/Kg	100	3/22/2023 12:52:27 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303967

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-140 30'

Project: East Pecos Pipeline Spill

Collection Date: 3/16/2023 2:00:00 PM

Lab ID: 2303967-011

Matrix: SOIL

Received Date: 3/18/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	3/22/2023 1:57:59 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/22/2023 1:57:59 PM
Surr: DNOP	95.9	69-147		%Rec	1	3/22/2023 1:57:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/21/2023 2:39:42 PM
Surr: BFB	104	37.7-212		%Rec	1	3/21/2023 2:39:42 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/21/2023 2:39:42 PM
Toluene	ND	0.048		mg/Kg	1	3/21/2023 2:39:42 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/21/2023 2:39:42 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/21/2023 2:39:42 PM
Surr: 4-Bromofluorobenzene	93.4	70-130		%Rec	1	3/21/2023 2:39:42 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	4400	150		mg/Kg	50	3/22/2023 1:04:51 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303967

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-140 35'

Project: East Pecos Pipeline Spill

Collection Date: 3/16/2023 2:00:00 PM

Lab ID: 2303967-012

Matrix: SOIL

Received Date: 3/18/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	3/22/2023 2:08:44 PM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	3/22/2023 2:08:44 PM
Surr: DNOP	96.8	69-147		%Rec	1	3/22/2023 2:08:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/21/2023 3:03:26 PM
Surr: BFB	103	37.7-212		%Rec	1	3/21/2023 3:03:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/21/2023 3:03:26 PM
Toluene	ND	0.047		mg/Kg	1	3/21/2023 3:03:26 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/21/2023 3:03:26 PM
Xylenes, Total	ND	0.094		mg/Kg	1	3/21/2023 3:03:26 PM
Surr: 4-Bromofluorobenzene	94.3	70-130		%Rec	1	3/21/2023 3:03:26 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	6000	150		mg/Kg	50	3/22/2023 1:17:16 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303967

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-140 40'

Project: East Pecos Pipeline Spill

Collection Date: 3/16/2023 2:40:00 PM

Lab ID: 2303967-013

Matrix: SOIL

Received Date: 3/18/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	3/22/2023 2:19:31 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/22/2023 2:19:31 PM
Surr: DNOP	85.7	69-147		%Rec	1	3/22/2023 2:19:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/21/2023 3:27:14 PM
Surr: BFB	102	37.7-212		%Rec	1	3/21/2023 3:27:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/21/2023 3:27:14 PM
Toluene	ND	0.049		mg/Kg	1	3/21/2023 3:27:14 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/21/2023 3:27:14 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/21/2023 3:27:14 PM
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	3/21/2023 3:27:14 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	4500	150		mg/Kg	50	3/22/2023 1:29:41 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303967

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-140 44'

Project: East Pecos Pipeline Spill

Collection Date: 3/16/2023 2:40:00 PM

Lab ID: 2303967-014

Matrix: SOIL

Received Date: 3/18/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	3/22/2023 3:31:44 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	3/22/2023 3:31:44 PM
Surr: DNOP	93.0	69-147		%Rec	1	3/22/2023 3:31:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/21/2023 3:50:46 PM
Surr: BFB	103	37.7-212		%Rec	1	3/21/2023 3:50:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/21/2023 3:50:46 PM
Toluene	ND	0.048		mg/Kg	1	3/21/2023 3:50:46 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/21/2023 3:50:46 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/21/2023 3:50:46 PM
Surr: 4-Bromofluorobenzene	93.5	70-130		%Rec	1	3/21/2023 3:50:46 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	5500	300		mg/Kg	100	3/22/2023 1:42:06 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303967

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-141 20'

Project: East Pecos Pipeline Spill

Collection Date: 3/16/2023 4:25:00 PM

Lab ID: 2303967-015

Matrix: SOIL

Received Date: 3/18/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	3/22/2023 3:42:33 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	3/22/2023 3:42:33 PM
Surr: DNOP	89.9	69-147		%Rec	1	3/22/2023 3:42:33 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/21/2023 4:14:18 PM
Surr: BFB	102	37.7-212		%Rec	1	3/21/2023 4:14:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/21/2023 4:14:18 PM
Toluene	ND	0.047		mg/Kg	1	3/21/2023 4:14:18 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/21/2023 4:14:18 PM
Xylenes, Total	ND	0.095		mg/Kg	1	3/21/2023 4:14:18 PM
Surr: 4-Bromofluorobenzene	93.0	70-130		%Rec	1	3/21/2023 4:14:18 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	3800	150		mg/Kg	50	3/22/2023 1:54:30 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2303967

Date Reported: 3/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-141 26'

Project: East Pecos Pipeline Spill

Collection Date: 3/16/2023 5:15:00 PM

Lab ID: 2303967-016

Matrix: SOIL

Received Date: 3/18/2023 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	3/22/2023 3:53:27 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	3/22/2023 3:53:27 PM
Surr: DNOP	90.2	69-147		%Rec	1	3/22/2023 3:53:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/21/2023 4:37:59 PM
Surr: BFB	101	37.7-212		%Rec	1	3/21/2023 4:37:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/21/2023 4:37:59 PM
Toluene	ND	0.049		mg/Kg	1	3/21/2023 4:37:59 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/21/2023 4:37:59 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/21/2023 4:37:59 PM
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	3/21/2023 4:37:59 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	4700	150		mg/Kg	50	3/22/2023 2:06:55 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2303967
24-Mar-23

Client: Vertex Resources Services, Inc.
Project: East Pecos Pipeline Spill

Sample ID: MB-73843	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 73843	RunNo: 95459
Prep Date: 3/21/2023	Analysis Date: 3/21/2023	SeqNo: 3453137 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-73843	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 73843	RunNo: 95459
Prep Date: 3/21/2023	Analysis Date: 3/21/2023	SeqNo: 3453138 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	15	1.5 15.00 0 99.2 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303967

24-Mar-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: MB-73836	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73836	RunNo: 95454								
Prep Date: 3/21/2023	Analysis Date: 3/22/2023	SeqNo: 3453575 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		88.8	69	147			

Sample ID: LCS-73836	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73836	RunNo: 95454								
Prep Date: 3/21/2023	Analysis Date: 3/22/2023	SeqNo: 3453577 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.8	61.9	130			
Surr: DNOP	4.7		5.000		93.6	69	147			

Sample ID: 2303967-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-138 20'	Batch ID: 73836	RunNo: 95454								
Prep Date: 3/21/2023	Analysis Date: 3/22/2023	SeqNo: 3454052 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.6	47.89	0	96.8	54.2	135			
Surr: DNOP	4.5		4.789		94.7	69	147			

Sample ID: 2303967-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-138 20'	Batch ID: 73836	RunNo: 95454								
Prep Date: 3/21/2023	Analysis Date: 3/22/2023	SeqNo: 3454055 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.3	46.73	0	90.6	54.2	135	9.13	29.2	
Surr: DNOP	4.5		4.673		97.3	69	147	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303967

24-Mar-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: lcs-73817	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 73817			RunNo: 95411						
Prep Date: 3/20/2023	Analysis Date: 3/21/2023			SeqNo: 3451793		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.4	70	130			
Surr: BFB	2000		1000		196	37.7	212			

Sample ID: mb-73817	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 73817			RunNo: 95411						
Prep Date: 3/20/2023	Analysis Date: 3/21/2023			SeqNo: 3451794		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		101	37.7	212			

Sample ID: 2303967-001ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH22-138 20'	Batch ID: 73817			RunNo: 95411						
Prep Date: 3/20/2023	Analysis Date: 3/21/2023			SeqNo: 3452649		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.63	0	110	70	130			
Surr: BFB	2100		985.2		217	37.7	212			S

Sample ID: 2303967-001amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BH22-138 20'	Batch ID: 73817			RunNo: 95411						
Prep Date: 3/20/2023	Analysis Date: 3/21/2023			SeqNo: 3452650		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.9	24.70	0	105	70	130	4.72	20	
Surr: BFB	2100		988.1		211	37.7	212	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303967

24-Mar-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: LCS-73817	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 73817			RunNo: 95411						
Prep Date: 3/20/2023	Analysis Date: 3/21/2023			SeqNo: 3451796		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.6	80	120			
Toluene	0.90	0.050	1.000	0	90.2	80	120			
Ethylbenzene	0.90	0.050	1.000	0	90.3	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.8	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	70	130			

Sample ID: mb-73817	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 73817			RunNo: 95411						
Prep Date: 3/20/2023	Analysis Date: 3/21/2023			SeqNo: 3451797		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		92.5	70	130			

Sample ID: 2303967-002ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: BH22-138 30'	Batch ID: 73817			RunNo: 95411						
Prep Date: 3/20/2023	Analysis Date: 3/21/2023			SeqNo: 3452697		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.024	0.9699	0	96.3	68.8	120			
Toluene	0.94	0.048	0.9699	0	96.6	73.6	124			
Ethylbenzene	0.94	0.048	0.9699	0	97.3	72.7	129			
Xylenes, Total	2.8	0.097	2.910	0	96.6	75.7	126			
Surr: 4-Bromofluorobenzene	0.94		0.9699		96.5	70	130			

Sample ID: 2303967-002amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: BH22-138 30'	Batch ID: 73817			RunNo: 95411						
Prep Date: 3/20/2023	Analysis Date: 3/21/2023			SeqNo: 3452698		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9662	0	98.4	68.8	120	1.80	20	
Toluene	0.96	0.048	0.9662	0	98.9	73.6	124	2.01	20	
Ethylbenzene	0.95	0.048	0.9662	0	98.8	72.7	129	1.22	20	
Xylenes, Total	2.9	0.097	2.899	0	99.1	75.7	126	2.09	20	
Surr: 4-Bromofluorobenzene	0.93		0.9662		96.7	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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

Sample Log-In Check List

Client Name: Vertex Resources
Services, Inc.

Work Order Number: 2303967

RcptNo: 1

Received By: Juan Rojas

3/18/2023 8:00:00 AM

Juan Rojas

Completed By: Juan Rojas

3/18/2023 8:16:42 AM

Juan Rojas

Reviewed By:

TME

3/18/23

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *Ju 3/18/23*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

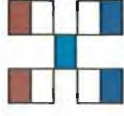
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	<i>Monety</i>			

Mr 3/20/23



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time:

☐ Standard ☒ Rush

Y8-WR

Project Name:

East Pecos Pipeline Spill

Project #:

22E-03982

Project Manager:

Kent Stallings

kstallings@vertex.ca

Sampler: L. Pullman

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (including CF): 2.9 on 12.8

Container Type and #

Preservative Type

HEAL No.

2303967

1, 4oz jar

1, 4oz jar

1, 4oz jar

1, 4oz jar

1, 4oz jar

1, 4oz jar

1, 4oz jar

1, 4oz jar

1, 4oz jar

1, 4oz jar

1, 4oz jar

1, 4oz jar

1, 4oz jar

1, 4oz jar

1, 4oz jar

Received by: Via: Date Time

3/17/23 07:00

Received by: Via: Date Time

3/17/23 07:00

Date: Time

3-17-23 07:00

Date: Time

3/17/23 19:00

Date Time Matrix Sample Name

03/15/23 13:30 Soil BH22-138 20'

03/15/23 14:15 Soil BH22-138 30'

03/15/23 15:15 Soil BH22-138 40'

03/15/23 15:55 Soil BH22-138 45'

03/15/23 16:20 Soil BH22-138 50'

03/16/23 10:50 Soil BH22-139 20'

03/16/23 11:15 Soil BH22-139 30'

03/16/23 11:45 Soil BH22-139 40'

03/16/23 11:45 Soil BH22-139 45'

03/16/23 13:45 Soil BH22-140 25'

03/16/23 14:00 Soil BH22-140 30'

03/16/23 14:00 Soil BH22-140 35'

Date: Time

3-17-23 19:00

Analysis Request

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

(C) F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Remarks:

Direct bill to Devon, Jim Raley

cc. kstallings@vertex.ca and mpeppin@vertex.ca for Final

Report

1 of 2

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 noted on the analytical report.

Client:

Vertex

(direct bill to Devon)

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

□ EDD (Type)

Date	Time	Matrix	Sample Name
------	------	--------	-------------

03/16/23	14:40	Soil
----------	-------	------

Soil BH22-140 40'

03/16/23	14:40	Soil
----------	-------	------

Soil	BH22-140	44
------	----------	----

[illegible]

BH22-141 20'

03/16/23	17.15	Soil
----------	-------	------

Soil BH22-141 26'

Date:	Time:
-------	-------

EF-11-8
0510

Date:	Time:
-------	-------

3/7/73 10.5

Relinquished by:

7

Relinquished by:

3

Received by: Via:

Q. 11

Received by: Via:

1

Time

2

Time

02

Remarks:

Direct bill

cc. Kstall

222

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

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-116 2'

Project: East Pecos

Collection Date: 2/3/2023 9:05:00 AM

Lab ID: 2302264-005

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/9/2023 6:07:09 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/9/2023 6:07:09 PM
Surr: DNOP	120	69-147		%Rec	1	2/9/2023 6:07:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/8/2023 2:40:14 PM
Surr: BFB	103	37.7-212		%Rec	1	2/8/2023 2:40:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/8/2023 2:40:14 PM
Toluene	ND	0.048		mg/Kg	1	2/8/2023 2:40:14 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/8/2023 2:40:14 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/8/2023 2:40:14 PM
Surr: 4-Bromofluorobenzene	85.4	70-130		%Rec	1	2/8/2023 2:40:14 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	190	59		mg/Kg	20	2/8/2023 4:41:01 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-117 0'

Project: East Pecos

Collection Date: 2/3/2023 9:10:00 AM

Lab ID: 2302264-006

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	2/9/2023 6:31:22 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/9/2023 6:31:22 PM
Surr: DNOP	123	69-147		%Rec	1	2/9/2023 6:31:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/8/2023 3:04:07 PM
Surr: BFB	101	37.7-212		%Rec	1	2/8/2023 3:04:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/8/2023 3:04:07 PM
Toluene	ND	0.049		mg/Kg	1	2/8/2023 3:04:07 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/8/2023 3:04:07 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/8/2023 3:04:07 PM
Surr: 4-Bromofluorobenzene	84.6	70-130		%Rec	1	2/8/2023 3:04:07 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	400	60		mg/Kg	20	2/8/2023 4:53:26 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-117 2'

Project: East Pecos

Collection Date: 2/3/2023 9:15:00 AM

Lab ID: 2302264-007

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/9/2023 6:55:46 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/9/2023 6:55:46 PM
Surr: DNOP	121	69-147		%Rec	1	2/9/2023 6:55:46 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/8/2023 3:27:53 PM
Surr: BFB	101	37.7-212		%Rec	1	2/8/2023 3:27:53 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/8/2023 3:27:53 PM
Toluene	ND	0.049		mg/Kg	1	2/8/2023 3:27:53 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/8/2023 3:27:53 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/8/2023 3:27:53 PM
Surr: 4-Bromofluorobenzene	83.9	70-130		%Rec	1	2/8/2023 3:27:53 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/8/2023 5:05:51 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-118 0'

Project: East Pecos

Collection Date: 2/3/2023 9:20:00 AM

Lab ID: 2302264-008

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/9/2023 7:20:09 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/9/2023 7:20:09 PM
Surr: DNOP	106	69-147		%Rec	1	2/9/2023 7:20:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/8/2023 3:51:32 PM
Surr: BFB	99.6	37.7-212		%Rec	1	2/8/2023 3:51:32 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/8/2023 3:51:32 PM
Toluene	ND	0.049		mg/Kg	1	2/8/2023 3:51:32 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/8/2023 3:51:32 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/8/2023 3:51:32 PM
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	2/8/2023 3:51:32 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	3200	150		mg/Kg	50	2/9/2023 9:16:07 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-118 2'

Project: East Pecos

Collection Date: 2/3/2023 9:25:00 AM

Lab ID: 2302264-009

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	21	9.0		mg/Kg	1	2/9/2023 3:16:34 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/9/2023 3:16:34 PM
Surr: DNOP	129	69-147		%Rec	1	2/9/2023 3:16:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/8/2023 4:15:09 PM
Surr: BFB	102	37.7-212		%Rec	1	2/8/2023 4:15:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/8/2023 4:15:09 PM
Toluene	ND	0.049		mg/Kg	1	2/8/2023 4:15:09 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/8/2023 4:15:09 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/8/2023 4:15:09 PM
Surr: 4-Bromofluorobenzene	84.7	70-130		%Rec	1	2/8/2023 4:15:09 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	1100	60		mg/Kg	20	2/8/2023 6:45:08 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-119 0'

Project: East Pecos

Collection Date: 2/3/2023 9:30:00 AM

Lab ID: 2302264-010

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/9/2023 2:05:01 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/9/2023 2:05:01 PM
Surr: DNOP	122	69-147		%Rec	1	2/9/2023 2:05:01 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/8/2023 5:25:28 PM
Surr: BFB	101	37.7-212		%Rec	1	2/8/2023 5:25:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/8/2023 5:25:28 PM
Toluene	ND	0.049		mg/Kg	1	2/8/2023 5:25:28 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/8/2023 5:25:28 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/8/2023 5:25:28 PM
Surr: 4-Bromofluorobenzene	86.8	70-130		%Rec	1	2/8/2023 5:25:28 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	73	60		mg/Kg	20	2/8/2023 7:22:21 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-119 2'

Project: East Pecos

Collection Date: 2/3/2023 9:35:00 AM

Lab ID: 2302264-011

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/9/2023 7:44:08 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/9/2023 7:44:08 PM
Surr: DNOP	108	69-147		%Rec	1	2/9/2023 7:44:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/8/2023 5:49:07 PM
Surr: BFB	102	37.7-212		%Rec	1	2/8/2023 5:49:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/8/2023 5:49:07 PM
Toluene	ND	0.049		mg/Kg	1	2/8/2023 5:49:07 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/8/2023 5:49:07 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/8/2023 5:49:07 PM
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	2/8/2023 5:49:07 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/8/2023 7:34:45 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-120 0'

Project: East Pecos

Collection Date: 2/3/2023 9:40:00 AM

Lab ID: 2302264-012

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/9/2023 8:08:16 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/9/2023 8:08:16 PM
Surr: DNOP	104	69-147		%Rec	1	2/9/2023 8:08:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/8/2023 7:47:00 PM
Surr: BFB	96.7	37.7-212		%Rec	1	2/8/2023 7:47:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	2/8/2023 7:47:00 PM
Toluene	ND	0.047		mg/Kg	1	2/8/2023 7:47:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/8/2023 7:47:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	2/8/2023 7:47:00 PM
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	2/8/2023 7:47:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/8/2023 8:11:58 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-120 2'

Project: East Pecos

Collection Date: 2/3/2023 9:45:00 AM

Lab ID: 2302264-013

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	2/9/2023 8:32:15 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/9/2023 8:32:15 PM
Surr: DNOP	82.1	69-147		%Rec	1	2/9/2023 8:32:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/8/2023 8:46:00 PM
Surr: BFB	98.0	37.7-212		%Rec	1	2/8/2023 8:46:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/8/2023 8:46:00 PM
Toluene	ND	0.050		mg/Kg	1	2/8/2023 8:46:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/8/2023 8:46:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/8/2023 8:46:00 PM
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	2/8/2023 8:46:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	100	60		mg/Kg	20	2/8/2023 8:24:23 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-120 4'

Project: East Pecos

Collection Date: 2/3/2023 9:50:00 AM

Lab ID: 2302264-014

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	2/9/2023 8:56:25 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/9/2023 8:56:25 PM
Surr: DNOP	73.2	69-147		%Rec	1	2/9/2023 8:56:25 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/8/2023 9:46:00 PM
Surr: BFB	96.8	37.7-212		%Rec	1	2/8/2023 9:46:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	2/8/2023 9:46:00 PM
Toluene	ND	0.047		mg/Kg	1	2/8/2023 9:46:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/8/2023 9:46:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	2/8/2023 9:46:00 PM
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	2/8/2023 9:46:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	180	60		mg/Kg	20	2/8/2023 8:36:47 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-121 0'

Project: East Pecos

Collection Date: 2/3/2023 9:55:00 AM

Lab ID: 2302264-015

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/9/2023 9:20:19 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/9/2023 9:20:19 PM
Surr: DNOP	107	69-147		%Rec	1	2/9/2023 9:20:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/8/2023 10:05:00 PM
Surr: BFB	92.7	37.7-212		%Rec	1	2/8/2023 10:05:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/8/2023 10:05:00 PM
Toluene	ND	0.049		mg/Kg	1	2/8/2023 10:05:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/8/2023 10:05:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/8/2023 10:05:00 PM
Surr: 4-Bromofluorobenzene	92.9	70-130		%Rec	1	2/8/2023 10:05:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/8/2023 8:49:11 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-121 2'

Project: East Pecos

Collection Date: 2/3/2023 10:00:00 AM

Lab ID: 2302264-016

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	2/9/2023 9:44:27 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/9/2023 9:44:27 PM
Surr: DNOP	92.5	69-147		%Rec	1	2/9/2023 9:44:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/8/2023 10:25:00 PM
Surr: BFB	92.9	37.7-212		%Rec	1	2/8/2023 10:25:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/8/2023 10:25:00 PM
Toluene	ND	0.048		mg/Kg	1	2/8/2023 10:25:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/8/2023 10:25:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/8/2023 10:25:00 PM
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	2/8/2023 10:25:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/8/2023 9:01:36 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-122 0'

Project: East Pecos

Collection Date: 2/3/2023 10:05:00 AM

Lab ID: 2302264-017

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/9/2023 10:08:23 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/9/2023 10:08:23 PM
Surr: DNOP	93.7	69-147		%Rec	1	2/9/2023 10:08:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/8/2023 10:45:00 PM
Surr: BFB	94.4	37.7-212		%Rec	1	2/8/2023 10:45:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	2/8/2023 10:45:00 PM
Toluene	ND	0.047		mg/Kg	1	2/8/2023 10:45:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/8/2023 10:45:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	2/8/2023 10:45:00 PM
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	2/8/2023 10:45:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/8/2023 9:14:01 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-122 2'

Project: East Pecos

Collection Date: 2/3/2023 10:10:00 AM

Lab ID: 2302264-018

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/9/2023 10:32:18 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/9/2023 10:32:18 PM
Surr: DNOP	116	69-147		%Rec	1	2/9/2023 10:32:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/8/2023 11:05:00 PM
Surr: BFB	95.0	37.7-212		%Rec	1	2/8/2023 11:05:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/8/2023 11:05:00 PM
Toluene	ND	0.049		mg/Kg	1	2/8/2023 11:05:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/8/2023 11:05:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/8/2023 11:05:00 PM
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	2/8/2023 11:05:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	88	60		mg/Kg	20	2/8/2023 9:26:25 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-122 4'

Project: East Pecos

Collection Date: 2/3/2023 10:15:00 AM

Lab ID: 2302264-019

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	2/9/2023 10:56:12 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	2/9/2023 10:56:12 PM
Surr: DNOP	99.8	69-147		%Rec	1	2/9/2023 10:56:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/8/2023 11:24:00 PM
Surr: BFB	94.6	37.7-212		%Rec	1	2/8/2023 11:24:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/8/2023 11:24:00 PM
Toluene	ND	0.048		mg/Kg	1	2/8/2023 11:24:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/8/2023 11:24:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/8/2023 11:24:00 PM
Surr: 4-Bromofluorobenzene	92.0	70-130		%Rec	1	2/8/2023 11:24:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/8/2023 9:38:50 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-123 0'

Project: East Pecos

Collection Date: 2/3/2023 10:20:00 AM

Lab ID: 2302264-020

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/10/2023 12:08:17 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/10/2023 12:08:17 AM
Surr: DNOP	113	69-147		%Rec	1	2/10/2023 12:08:17 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/8/2023 11:44:00 PM
Surr: BFB	90.5	37.7-212		%Rec	1	2/8/2023 11:44:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/8/2023 11:44:00 PM
Toluene	ND	0.048		mg/Kg	1	2/8/2023 11:44:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/8/2023 11:44:00 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/8/2023 11:44:00 PM
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	2/8/2023 11:44:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/8/2023 9:51:14 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-123 2'

Project: East Pecos

Collection Date: 2/3/2023 10:25:00 AM

Lab ID: 2302264-021

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	2/10/2023 12:32:07 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	2/10/2023 12:32:07 AM
Surr: DNOP	105	69-147		%Rec	1	2/10/2023 12:32:07 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/9/2023 12:04:00 AM
Surr: BFB	97.7	37.7-212		%Rec	1	2/9/2023 12:04:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/9/2023 12:04:00 AM
Toluene	ND	0.050		mg/Kg	1	2/9/2023 12:04:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/9/2023 12:04:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/9/2023 12:04:00 AM
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	1	2/9/2023 12:04:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	62	61		mg/Kg	20	2/8/2023 10:03:39 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-124 0'

Project: East Pecos

Collection Date: 2/3/2023 10:30:00 AM

Lab ID: 2302264-022

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	2/10/2023 12:56:06 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/10/2023 12:56:06 AM
Surr: DNOP	99.5	69-147		%Rec	1	2/10/2023 12:56:06 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/9/2023 12:43:00 AM
Surr: BFB	95.4	37.7-212		%Rec	1	2/9/2023 12:43:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/9/2023 12:43:00 AM
Toluene	ND	0.049		mg/Kg	1	2/9/2023 12:43:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/9/2023 12:43:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/9/2023 12:43:00 AM
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	2/9/2023 12:43:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/8/2023 10:40:53 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-124 2'

Project: East Pecos

Collection Date: 2/3/2023 10:35:00 AM

Lab ID: 2302264-023

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/10/2023 1:19:53 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/10/2023 1:19:53 AM
Surr: DNOP	94.7	69-147		%Rec	1	2/10/2023 1:19:53 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/9/2023 1:02:00 AM
Surr: BFB	90.2	37.7-212		%Rec	1	2/9/2023 1:02:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/9/2023 1:02:00 AM
Toluene	ND	0.050		mg/Kg	1	2/9/2023 1:02:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/9/2023 1:02:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/9/2023 1:02:00 AM
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	2/9/2023 1:02:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	940	60		mg/Kg	20	2/8/2023 10:53:17 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-125 0'

Project: East Pecos

Collection Date: 2/3/2023 10:40:00 AM

Lab ID: 2302264-024

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	2/10/2023 1:43:47 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	2/10/2023 1:43:47 AM
Surr: DNOP	122	69-147		%Rec	1	2/10/2023 1:43:47 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/9/2023 1:22:00 AM
Surr: BFB	90.9	37.7-212		%Rec	1	2/9/2023 1:22:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/9/2023 1:22:00 AM
Toluene	ND	0.047		mg/Kg	1	2/9/2023 1:22:00 AM
Ethylbenzene	ND	0.047		mg/Kg	1	2/9/2023 1:22:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	2/9/2023 1:22:00 AM
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	2/9/2023 1:22:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	100	60		mg/Kg	20	2/8/2023 11:05:42 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-125 2'

Project: East Pecos

Collection Date: 2/3/2023 10:45:00 AM

Lab ID: 2302264-025

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/10/2023 2:07:35 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/10/2023 2:07:35 AM
Surr: DNOP	117	69-147		%Rec	1	2/10/2023 2:07:35 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/9/2023 1:42:00 AM
Surr: BFB	90.7	37.7-212		%Rec	1	2/9/2023 1:42:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/9/2023 1:42:00 AM
Toluene	ND	0.049		mg/Kg	1	2/9/2023 1:42:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/9/2023 1:42:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/9/2023 1:42:00 AM
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	2/9/2023 1:42:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	1200	60		mg/Kg	20	2/8/2023 11:18:07 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-125 4'

Project: East Pecos

Collection Date: 2/3/2023 10:50:00 AM

Lab ID: 2302264-026

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	2/10/2023 2:31:35 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	2/10/2023 2:31:35 AM
Surr: DNOP	118	69-147		%Rec	1	2/10/2023 2:31:35 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/9/2023 2:01:00 AM
Surr: BFB	96.0	37.7-212		%Rec	1	2/9/2023 2:01:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	2/9/2023 2:01:00 AM
Toluene	ND	0.046		mg/Kg	1	2/9/2023 2:01:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	2/9/2023 2:01:00 AM
Xylenes, Total	ND	0.091		mg/Kg	1	2/9/2023 2:01:00 AM
Surr: 4-Bromofluorobenzene	93.3	70-130		%Rec	1	2/9/2023 2:01:00 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	140	60		mg/Kg	20	2/8/2023 11:30:31 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-126 0'

Project: East Pecos

Collection Date: 2/3/2023 10:55:00 AM

Lab ID: 2302264-027

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	2/10/2023 3:19:35 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/10/2023 3:19:35 AM
Surr: DNOP	106	69-147		%Rec	1	2/10/2023 3:19:35 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/9/2023 2:34:00 PM
Surr: BFB	96.7	37.7-212		%Rec	1	2/9/2023 2:34:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/9/2023 2:34:00 PM
Toluene	ND	0.047		mg/Kg	1	2/9/2023 2:34:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/9/2023 2:34:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/9/2023 2:34:00 PM
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	2/9/2023 2:34:00 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/8/2023 11:42:55 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-126 2'

Project: East Pecos

Collection Date: 2/3/2023 11:00:00 AM

Lab ID: 2302264-028

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/10/2023 3:43:32 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/10/2023 3:43:32 AM
Surr: DNOP	132	69-147		%Rec	1	2/10/2023 3:43:32 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/9/2023 2:54:00 PM
Surr: BFB	94.9	37.7-212		%Rec	1	2/9/2023 2:54:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	2/9/2023 2:54:00 PM
Toluene	ND	0.046		mg/Kg	1	2/9/2023 2:54:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	2/9/2023 2:54:00 PM
Xylenes, Total	ND	0.092		mg/Kg	1	2/9/2023 2:54:00 PM
Surr: 4-Bromofluorobenzene	94.0	70-130		%Rec	1	2/9/2023 2:54:00 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	1000	60		mg/Kg	20	2/8/2023 5:08:36 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-127 0'

Project: East Pecos

Collection Date: 2/3/2023 11:05:00 AM

Lab ID: 2302264-029

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/10/2023 4:07:35 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/10/2023 4:07:35 AM
Surr: DNOP	95.9	69-147		%Rec	1	2/10/2023 4:07:35 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/9/2023 3:14:00 PM
Surr: BFB	96.8	37.7-212		%Rec	1	2/9/2023 3:14:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/9/2023 3:14:00 PM
Toluene	ND	0.047		mg/Kg	1	2/9/2023 3:14:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/9/2023 3:14:00 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/9/2023 3:14:00 PM
Surr: 4-Bromofluorobenzene	96.2	70-130		%Rec	1	2/9/2023 3:14:00 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	64	60		mg/Kg	20	2/8/2023 5:21:00 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-127 2'

Project: East Pecos

Collection Date: 2/3/2023 11:10:00 AM

Lab ID: 2302264-030

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/10/2023 4:29:45 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/10/2023 4:29:45 AM
Surr: DNOP	95.9	69-147		%Rec	1	2/10/2023 4:29:45 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	2/9/2023 3:33:00 PM
Surr: BFB	98.8	37.7-212		%Rec	1	2/9/2023 3:33:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	2/9/2023 3:33:00 PM
Toluene	ND	0.046		mg/Kg	1	2/9/2023 3:33:00 PM
Ethylbenzene	ND	0.046		mg/Kg	1	2/9/2023 3:33:00 PM
Xylenes, Total	ND	0.091		mg/Kg	1	2/9/2023 3:33:00 PM
Surr: 4-Bromofluorobenzene	95.3	70-130		%Rec	1	2/9/2023 3:33:00 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	110	60		mg/Kg	20	2/8/2023 6:23:05 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-128 0'

Project: East Pecos

Collection Date: 2/3/2023 11:15:00 AM

Lab ID: 2302264-031

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/10/2023 4:55:31 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/10/2023 4:55:31 AM
Surr: DNOP	112	69-147		%Rec	1	2/10/2023 4:55:31 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/9/2023 3:53:00 PM
Surr: BFB	91.2	37.7-212		%Rec	1	2/9/2023 3:53:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/9/2023 3:53:00 PM
Toluene	ND	0.049		mg/Kg	1	2/9/2023 3:53:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/9/2023 3:53:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/9/2023 3:53:00 PM
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	2/9/2023 3:53:00 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	2/8/2023 7:00:18 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-128 2'

Project: East Pecos

Collection Date: 2/3/2023 11:20:00 AM

Lab ID: 2302264-032

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/10/2023 5:19:23 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/10/2023 5:19:23 AM
Surr: DNOP	106	69-147		%Rec	1	2/10/2023 5:19:23 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	620	60		mg/Kg	20	2/8/2023 7:12:43 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/8/2023 3:57:19 PM
Toluene	ND	0.049		mg/Kg	1	2/8/2023 3:57:19 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/8/2023 3:57:19 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/8/2023 3:57:19 PM
Surr: 1,2-Dichloroethane-d4	118	70-130		%Rec	1	2/8/2023 3:57:19 PM
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	2/8/2023 3:57:19 PM
Surr: Dibromofluoromethane	107	70-130		%Rec	1	2/8/2023 3:57:19 PM
Surr: Toluene-d8	107	70-130		%Rec	1	2/8/2023 3:57:19 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/8/2023 3:57:19 PM
Surr: BFB	106	70-130		%Rec	1	2/8/2023 3:57:19 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-129 0'

Project: East Pecos

Collection Date: 2/3/2023 11:25:00 AM

Lab ID: 2302264-033

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/10/2023 5:43:28 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/10/2023 5:43:28 AM
Surr: DNOP	102	69-147		%Rec	1	2/10/2023 5:43:28 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	120	60		mg/Kg	20	2/8/2023 7:25:08 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/8/2023 5:19:09 PM
Toluene	ND	0.049		mg/Kg	1	2/8/2023 5:19:09 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/8/2023 5:19:09 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/8/2023 5:19:09 PM
Surr: 1,2-Dichloroethane-d4	134	70-130	S	%Rec	1	2/8/2023 5:19:09 PM
Surr: 4-Bromofluorobenzene	119	70-130		%Rec	1	2/8/2023 5:19:09 PM
Surr: Dibromofluoromethane	117	70-130		%Rec	1	2/8/2023 5:19:09 PM
Surr: Toluene-d8	104	70-130		%Rec	1	2/8/2023 5:19:09 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/8/2023 5:19:09 PM
Surr: BFB	112	70-130		%Rec	1	2/8/2023 5:19:09 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-129 2'

Project: East Pecos

Collection Date: 2/3/2023 11:30:00 AM

Lab ID: 2302264-034

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	2/10/2023 6:07:24 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/10/2023 6:07:24 AM
Surr: DNOP	101	69-147		%Rec	1	2/10/2023 6:07:24 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	880	60		mg/Kg	20	2/8/2023 7:37:33 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/8/2023 6:40:50 PM
Toluene	ND	0.048		mg/Kg	1	2/8/2023 6:40:50 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/8/2023 6:40:50 PM
Xylenes, Total	ND	0.096		mg/Kg	1	2/8/2023 6:40:50 PM
Surr: 1,2-Dichloroethane-d4	124	70-130		%Rec	1	2/8/2023 6:40:50 PM
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	2/8/2023 6:40:50 PM
Surr: Dibromofluoromethane	116	70-130		%Rec	1	2/8/2023 6:40:50 PM
Surr: Toluene-d8	105	70-130		%Rec	1	2/8/2023 6:40:50 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/8/2023 6:40:50 PM
Surr: BFB	116	70-130		%Rec	1	2/8/2023 6:40:50 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-130 0'

Project: East Pecos

Collection Date: 2/3/2023 11:35:00 AM

Lab ID: 2302264-035

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	15000	180		mg/Kg	20	2/9/2023 6:45:53 AM
Motor Oil Range Organics (MRO)	8000	920		mg/Kg	20	2/9/2023 6:45:53 AM
Surr: DNOP	0	69-147	S	%Rec	20	2/9/2023 6:45:53 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	12000	600		mg/Kg	200	2/9/2023 9:28:32 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.12		mg/Kg	5	2/8/2023 7:08:01 PM
Toluene	ND	0.23		mg/Kg	5	2/8/2023 7:08:01 PM
Ethylbenzene	ND	0.23		mg/Kg	5	2/8/2023 7:08:01 PM
Xylenes, Total	0.59	0.47		mg/Kg	5	2/8/2023 7:08:01 PM
Surr: 1,2-Dichloroethane-d4	126	70-130		%Rec	5	2/8/2023 7:08:01 PM
Surr: 4-Bromofluorobenzene	125	70-130		%Rec	5	2/8/2023 7:08:01 PM
Surr: Dibromofluoromethane	117	70-130		%Rec	5	2/8/2023 7:08:01 PM
Surr: Toluene-d8	109	70-130		%Rec	5	2/8/2023 7:08:01 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	38	23		mg/Kg	5	2/8/2023 7:08:01 PM
Surr: BFB	125	70-130		%Rec	5	2/8/2023 7:08:01 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-130 2'

Project: East Pecos

Collection Date: 2/3/2023 11:40:00 AM

Lab ID: 2302264-036

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	120	9.2		mg/Kg	1	2/10/2023 6:31:30 AM
Motor Oil Range Organics (MRO)	66	46		mg/Kg	1	2/10/2023 6:31:30 AM
Surr: DNOP	101	69-147		%Rec	1	2/10/2023 6:31:30 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	5000	300		mg/Kg	100	2/9/2023 9:40:56 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/8/2023 7:35:13 PM
Toluene	ND	0.048		mg/Kg	1	2/8/2023 7:35:13 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/8/2023 7:35:13 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/8/2023 7:35:13 PM
Surr: 1,2-Dichloroethane-d4	132	70-130	S	%Rec	1	2/8/2023 7:35:13 PM
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	2/8/2023 7:35:13 PM
Surr: Dibromofluoromethane	116	70-130		%Rec	1	2/8/2023 7:35:13 PM
Surr: Toluene-d8	105	70-130		%Rec	1	2/8/2023 7:35:13 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/8/2023 7:35:13 PM
Surr: BFB	113	70-130		%Rec	1	2/8/2023 7:35:13 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-130 4'

Project: East Pecos

Collection Date: 2/3/2023 11:45:00 AM

Lab ID: 2302264-037

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/10/2023 6:55:30 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/10/2023 6:55:30 AM
Surr: DNOP	96.6	69-147		%Rec	1	2/10/2023 6:55:30 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	4500	150		mg/Kg	50	2/9/2023 9:53:20 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/8/2023 8:02:23 PM
Toluene	ND	0.049		mg/Kg	1	2/8/2023 8:02:23 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/8/2023 8:02:23 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/8/2023 8:02:23 PM
Surr: 1,2-Dichloroethane-d4	119	70-130		%Rec	1	2/8/2023 8:02:23 PM
Surr: 4-Bromofluorobenzene	114	70-130		%Rec	1	2/8/2023 8:02:23 PM
Surr: Dibromofluoromethane	120	70-130		%Rec	1	2/8/2023 8:02:23 PM
Surr: Toluene-d8	110	70-130		%Rec	1	2/8/2023 8:02:23 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/8/2023 8:02:23 PM
Surr: BFB	118	70-130		%Rec	1	2/8/2023 8:02:23 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-131 0'

Project: East Pecos

Collection Date: 2/3/2023 11:50:00 AM

Lab ID: 2302264-038

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	74	9.2		mg/Kg	1	2/10/2023 7:19:40 AM
Motor Oil Range Organics (MRO)	48	46		mg/Kg	1	2/10/2023 7:19:40 AM
Surr: DNOP	107	69-147		%Rec	1	2/10/2023 7:19:40 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	4900	150		mg/Kg	50	2/9/2023 10:05:44 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/8/2023 8:29:32 PM
Toluene	ND	0.048		mg/Kg	1	2/8/2023 8:29:32 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/8/2023 8:29:32 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/8/2023 8:29:32 PM
Surr: 1,2-Dichloroethane-d4	125	70-130		%Rec	1	2/8/2023 8:29:32 PM
Surr: 4-Bromofluorobenzene	124	70-130		%Rec	1	2/8/2023 8:29:32 PM
Surr: Dibromofluoromethane	119	70-130		%Rec	1	2/8/2023 8:29:32 PM
Surr: Toluene-d8	104	70-130		%Rec	1	2/8/2023 8:29:32 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/8/2023 8:29:32 PM
Surr: BFB	118	70-130		%Rec	1	2/8/2023 8:29:32 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-131 2'

Project: East Pecos

Collection Date: 2/3/2023 11:55:00 AM

Lab ID: 2302264-039

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	2/10/2023 10:56:02 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/10/2023 10:56:02 AM
Surr: DNOP	90.5	69-147		%Rec	1	2/10/2023 10:56:02 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	9400	600		mg/Kg	200	2/9/2023 2:22:16 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/8/2023 8:56:40 PM
Toluene	ND	0.048		mg/Kg	1	2/8/2023 8:56:40 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/8/2023 8:56:40 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/8/2023 8:56:40 PM
Surr: 1,2-Dichloroethane-d4	134	70-130	S	%Rec	1	2/8/2023 8:56:40 PM
Surr: 4-Bromofluorobenzene	117	70-130		%Rec	1	2/8/2023 8:56:40 PM
Surr: Dibromofluoromethane	121	70-130		%Rec	1	2/8/2023 8:56:40 PM
Surr: Toluene-d8	105	70-130		%Rec	1	2/8/2023 8:56:40 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/8/2023 8:56:40 PM
Surr: BFB	116	70-130		%Rec	1	2/8/2023 8:56:40 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2302264

Date Reported: 2/13/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH22-131 4'

Project: East Pecos

Collection Date: 2/3/2023 12:00:00 PM

Lab ID: 2302264-040

Matrix: SOIL

Received Date: 2/7/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JME
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	2/10/2023 12:08:07 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	2/10/2023 12:08:07 PM
Surr: DNOP	90.2	69-147		%Rec	1	2/10/2023 12:08:07 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	9300	600		mg/Kg	200	2/9/2023 2:34:41 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	2/8/2023 9:23:49 PM
Toluene	ND	0.047		mg/Kg	1	2/8/2023 9:23:49 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/8/2023 9:23:49 PM
Xylenes, Total	ND	0.095		mg/Kg	1	2/8/2023 9:23:49 PM
Surr: 1,2-Dichloroethane-d4	126	70-130		%Rec	1	2/8/2023 9:23:49 PM
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	2/8/2023 9:23:49 PM
Surr: Dibromofluoromethane	117	70-130		%Rec	1	2/8/2023 9:23:49 PM
Surr: Toluene-d8	108	70-130		%Rec	1	2/8/2023 9:23:49 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/8/2023 9:23:49 PM
Surr: BFB	118	70-130		%Rec	1	2/8/2023 9:23:49 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302264

13-Feb-23

Client: Devon Energy**Project:** East Pecos

Sample ID: MB-73076	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 73076	RunNo: 94475								
Prep Date: 2/8/2023	Analysis Date: 2/8/2023	SeqNo: 3414519 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73076	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 73076	RunNo: 94475								
Prep Date: 2/8/2023	Analysis Date: 2/8/2023	SeqNo: 3414520 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.8	90	110			

Sample ID: MB-73077	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 73077	RunNo: 94475								
Prep Date: 2/8/2023	Analysis Date: 2/8/2023	SeqNo: 3414551 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73077	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 73077	RunNo: 94475								
Prep Date: 2/8/2023	Analysis Date: 2/8/2023	SeqNo: 3414552 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

Sample ID: MB-73088	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 73088	RunNo: 94479								
Prep Date: 2/8/2023	Analysis Date: 2/8/2023	SeqNo: 3415035 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73088	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 73088	RunNo: 94479								
Prep Date: 2/8/2023	Analysis Date: 2/8/2023	SeqNo: 3415036 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302264

13-Feb-23

Client: Devon Energy

Project: East Pecos

Sample ID: MB-73097		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 73097		RunNo: 94508						
Prep Date: 2/9/2023		Analysis Date: 2/9/2023		SeqNo: 3415573			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73097		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 73097		RunNo: 94508						
Prep Date: 2/9/2023		Analysis Date: 2/9/2023		SeqNo: 3415574			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.0	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302264

13-Feb-23

Client: Devon Energy**Project:** East Pecos

Sample ID: LCS-73062	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73062			RunNo: 94502						
Prep Date: 2/7/2023	Analysis Date: 2/9/2023			SeqNo: 3415581		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	10	50.00	0	116	61.9	130			
Surr: DNOP	5.7		5.000		114	69	147			

Sample ID: 2302264-019AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH22-122 4'	Batch ID: 73065			RunNo: 94521						
Prep Date: 2/7/2023	Analysis Date: 2/9/2023			SeqNo: 3416219		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	9.4	47.13	0	77.7	54.2	135			
Surr: DNOP	3.6		4.713		76.1	69	147			

Sample ID: 2302264-019AMSD	SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BH22-122 4'	Batch ID: 73065			RunNo: 94521						
Prep Date: 2/7/2023	Analysis Date: 2/9/2023			SeqNo: 3416220		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.1	45.62	0	89.6	54.2	135	11.1	29.2	
Surr: DNOP	3.9		4.562		86.0	69	147	0	0	

Sample ID: LCS-73072	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73072			RunNo: 94521						
Prep Date: 2/8/2023	Analysis Date: 2/10/2023			SeqNo: 3416239		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	105	61.9	130			
Surr: DNOP	5.4		5.000		109	69	147			

Sample ID: MB-73072	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73072			RunNo: 94521						
Prep Date: 2/8/2023	Analysis Date: 2/10/2023			SeqNo: 3416240		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.4	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302264

13-Feb-23

Client: Devon Energy**Project:** East Pecos

Sample ID: MB-73062	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73062	RunNo: 94502								
Prep Date: 2/7/2023	Analysis Date: 2/9/2023	SeqNo: 3416376 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		130	69	147			

Sample ID: MB-73065	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73065	RunNo: 94502								
Prep Date: 2/7/2023	Analysis Date: 2/9/2023	SeqNo: 3416377 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		115	69	147			

Sample ID: LCS-73065	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73065	RunNo: 94502								
Prep Date: 2/7/2023	Analysis Date: 2/9/2023	SeqNo: 3416378 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	111	61.9	130			
Surr: DNOP	6.0		5.000		120	69	147			

Sample ID: MB-73042	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73042	RunNo: 94502								
Prep Date: 2/7/2023	Analysis Date: 2/9/2023	SeqNo: 3416464 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		121	69	147			

Sample ID: LCS-73042	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73042	RunNo: 94502								
Prep Date: 2/7/2023	Analysis Date: 2/9/2023	SeqNo: 3416465 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.9		5.000		138	69	147			

Sample ID: MB-73034	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73034	RunNo: 94521								
Prep Date: 2/6/2023	Analysis Date: 2/10/2023	SeqNo: 3417017 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302264

13-Feb-23

Client: Devon Energy**Project:** East Pecos

Sample ID: MB-73034	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 73034		RunNo: 94521							
Prep Date: 2/6/2023	Analysis Date: 2/10/2023		SeqNo: 3417017		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.9		10.00		88.9	69	147			

Sample ID: 2302264-039AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH22-131 2'	Batch ID: 73072		RunNo: 94521							
Prep Date: 2/8/2023	Analysis Date: 2/10/2023		SeqNo: 3417020		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.5	47.30	0	93.7	54.2	135			
Surr: DNOP	4.5		4.730		95.9	69	147			

Sample ID: 2302264-039AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BH22-131 2'	Batch ID: 73072		RunNo: 94521							
Prep Date: 2/8/2023	Analysis Date: 2/10/2023		SeqNo: 3417021		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.9	49.41	0	89.2	54.2	135	0.556	29.2	
Surr: DNOP	4.5		4.941		90.9	69	147	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302264

13-Feb-23

Client: Devon Energy**Project:** East Pecos

Sample ID: lcs-73053	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 73053				RunNo: 94468					
Prep Date: 2/7/2023	Analysis Date: 2/8/2023				SeqNo: 3413852	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.5	72.3	137			
Surr: BFB	1100		1000		112	37.7	212			

Sample ID: mb-73053	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 73053				RunNo: 94468					
Prep Date: 2/7/2023	Analysis Date: 2/8/2023				SeqNo: 3413853	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		99.5	37.7	212			

Sample ID: lcs-73057	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 73057				RunNo: 94465					
Prep Date: 2/7/2023	Analysis Date: 2/8/2023				SeqNo: 3414659	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.7	72.3	137			
Surr: BFB	1000		1000		102	37.7	212			

Sample ID: mb-73057	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 73057				RunNo: 94465					
Prep Date: 2/7/2023	Analysis Date: 2/8/2023				SeqNo: 3414660	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.7	37.7	212			

Sample ID: 2302264-012ams	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH22-120 0'	Batch ID: 73057				RunNo: 94465					
Prep Date: 2/7/2023	Analysis Date: 2/8/2023				SeqNo: 3414662	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.6	23.21	0	103	70	130			
Surr: BFB	970		928.5		104	37.7	212			

Sample ID: 2302264-012amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH22-120 0'	Batch ID: 73057				RunNo: 94465					
Prep Date: 2/7/2023	Analysis Date: 2/8/2023				SeqNo: 3414663	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302264

13-Feb-23

Client: Devon Energy

Project: East Pecos

Sample ID: 2302264-012amsd		SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH22-120 0'		Batch ID: 73057			RunNo: 94465					
Prep Date: 2/7/2023		Analysis Date: 2/8/2023			SeqNo: 3414663		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.7	23.26	0	95.7	70	130	6.67	20	
Surr: BFB	970		930.2		104	37.7	212	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302264

13-Feb-23

Client: Devon Energy**Project:** East Pecos

Sample ID: LCS-73053	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 73053			RunNo: 94468						
Prep Date: 2/7/2023	Analysis Date: 2/8/2023			SeqNo: 3413860		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	84.9	80	120			
Toluene	0.86	0.050	1.000	0	86.1	80	120			
Ethylbenzene	0.88	0.050	1.000	0	87.5	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.4	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.5	70	130			

Sample ID: mb-73053	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 73053			RunNo: 94468						
Prep Date: 2/7/2023	Analysis Date: 2/8/2023			SeqNo: 3413861		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.84		1.000		84.1	70	130			

Sample ID: lcs-73057	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 73057			RunNo: 94465						
Prep Date: 2/7/2023	Analysis Date: 2/8/2023			SeqNo: 3414751		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.5	80	120			
Toluene	0.94	0.050	1.000	0	93.5	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.6	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.8	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	70	130			

Sample ID: mb-73057	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 73057			RunNo: 94465						
Prep Date: 2/7/2023	Analysis Date: 2/8/2023			SeqNo: 3414752		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		96.7	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302264

13-Feb-23

Client: Devon Energy**Project:** East Pecos

Sample ID: 2302264-013ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-120 2'	Batch ID: 73057	RunNo: 94465								
Prep Date: 2/7/2023	Analysis Date: 2/8/2023	SeqNo: 3414755	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	0.9814	0	98.5	68.8	120			
Toluene	0.97	0.049	0.9814	0	98.8	73.6	124			
Ethylbenzene	0.97	0.049	0.9814	0	98.7	72.7	129			
Xylenes, Total	2.9	0.098	2.944	0	98.7	75.7	126			
Surr: 4-Bromofluorobenzene	0.90		0.9814		91.9	70	130			

Sample ID: 2302264-013amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-120 2'	Batch ID: 73057	RunNo: 94465								
Prep Date: 2/7/2023	Analysis Date: 2/8/2023	SeqNo: 3414756	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	0.9862	0	97.2	68.8	120	0.838	20	
Toluene	0.96	0.049	0.9862	0	97.2	73.6	124	1.13	20	
Ethylbenzene	0.96	0.049	0.9862	0	97.0	72.7	129	1.18	20	
Xylenes, Total	2.9	0.099	2.959	0	97.2	75.7	126	1.09	20	
Surr: 4-Bromofluorobenzene	0.92		0.9862		93.2	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.	

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302264

13-Feb-23

Client: Devon Energy**Project:** East Pecos

Sample ID: 2302264-033ams	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BH22-129 0'	Batch ID: 73058	RunNo: 94486								
Prep Date: 2/7/2023	Analysis Date: 2/8/2023	SeqNo: 3414308			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9756	0	113	75.8	123			
Toluene	1.1	0.049	0.9756	0	115	68.3	130			
Ethylbenzene	1.1	0.049	0.9756	0	115	76.6	132			
Xylenes, Total	3.6	0.098	2.927	0.02159	122	74.7	132			
Surr: 1,2-Dichloroethane-d4	0.66		0.4878		135	70	130			S
Surr: 4-Bromofluorobenzene	0.59		0.4878		122	70	130			
Surr: Dibromofluoromethane	0.60		0.4878		124	70	130			
Surr: Toluene-d8	0.54		0.4878		112	70	130			

Sample ID: 2302264-033amsd	SampType: MS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BH22-129 0'	Batch ID: 73058	RunNo: 94486								
Prep Date: 2/7/2023	Analysis Date: 2/8/2023	SeqNo: 3414309			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9747	0	106	75.8	123	6.84	0	
Toluene	1.0	0.049	0.9747	0	103	68.3	130	11.2	0	
Ethylbenzene	1.1	0.049	0.9747	0	111	76.6	132	3.18	0	
Xylenes, Total	3.4	0.097	2.924	0.02159	116	74.7	132	5.16	0	
Surr: 1,2-Dichloroethane-d4	0.57		0.4873		117	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.53		0.4873		109	70	130	0	0	
Surr: Dibromofluoromethane	0.51		0.4873		105	70	130	0	0	
Surr: Toluene-d8	0.48		0.4873		98.6	70	130	0	0	

Sample ID: LCS-73058	SampType: LCS4	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 73058	RunNo: 94486								
Prep Date: 2/7/2023	Analysis Date: 2/8/2023	SeqNo: 3414319			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	94.9	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.9	80	120			
Xylenes, Total	3.0	0.10	3.000	0	102	80	120			
Surr: 1,2-Dichloroethane-d4	0.61		0.5000		123	70	130			
Surr: 4-Bromofluorobenzene	0.56		0.5000		112	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		111	70	130			
Surr: Toluene-d8	0.53		0.5000		106	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302264

13-Feb-23

Client: Devon Energy

Project: East Pecos

Sample ID: mb-73058	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 73058	RunNo: 94486								
Prep Date: 2/7/2023	Analysis Date: 2/8/2023	SeqNo: 3414320		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.60		0.5000		121	70	130			
Surr: 4-Bromofluorobenzene	0.60		0.5000		120	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		108	70	130			
Surr: Toluene-d8	0.54		0.5000		109	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2302264

13-Feb-23

Client: Devon Energy**Project:** East Pecos

Sample ID: 2302264-032ams	SampType: MS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: BH22-128 2'	Batch ID: 73058		RunNo: 94486							
Prep Date: 2/7/2023	Analysis Date: 2/8/2023		SeqNo: 3414291		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	4.9	24.44	0	128	65.9	123			S
Surr: BFB	540		488.8		110	70	130			

Sample ID: 2302264-032amsd	SampType: MSD		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: BH22-128 2'	Batch ID: 73058		RunNo: 94486							
Prep Date: 2/7/2023	Analysis Date: 2/8/2023		SeqNo: 3414292		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.9	24.37	0	122	65.9	123	4.71	20	
Surr: BFB	550		487.3		114	70	130	0	0	

Sample ID: LCS-73058	SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: 73058		RunNo: 94486							
Prep Date: 2/7/2023	Analysis Date: 2/8/2023		SeqNo: 3414303		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	70	130			
Surr: BFB	580		500.0		116	70	130			

Sample ID: mb-73058	SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: PBS	Batch ID: 73058		RunNo: 94486							
Prep Date: 2/7/2023	Analysis Date: 2/8/2023		SeqNo: 3414304		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	570		500.0		114	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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

Sample Log-In Check List

Client Name: Vertex Resources
Services, Inc.

Work Order Number: 2302264

RcptNo: 1

Received By: Juan Rojas 2/7/2023 7:50:00 AM

Completed By: Sean Livingston 2/7/2023 8:22:42 AM

Reviewed By: *JA* 2-7-23

Juan Rojas

Sean Livingston

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *JA 2/7/23*

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.2	Good	Not Present	Morty		

Chain-of-Custody Record

Client: Devon

Mailing Address: (Vertex)

Phone #: On File

email or Fax#: ↓

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☐ EDD (Type)

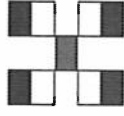
[illegible]

Date: 2/23 5:00 PM	Relinquished by:
Date: 2/23 9:00 AM	Relinquished by: [Signature]

Turn-Around Time:	<input checked="" type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush	48 hr
Project Name:	East Pecos		
Project #:	22E-03982		
Project Manager:	Monica Peppin		
Sampler:			
On Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
# of Coolers:	1		

[illegible]

Received by: <i>[Signature]</i>	Via:	Date	Time
Received by: <i>[Signature]</i>	Via:	Date	Time



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Remarks:

CC Monica Peppin



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

March 28, 2023

Kent Stallings

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: East Pecos Pipeline Spill

OrderNo.: 2303A37

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 11 sample(s) on 3/21/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2303A37

Date Reported: 3/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-141 30'

Project: East Pecos Pipeline Spill

Collection Date: 3/17/2023 8:45:00 AM

Lab ID: 2303A37-001

Matrix: SOIL

Received Date: 3/21/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/22/2023 4:36:42 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/22/2023 4:36:42 PM
Surr: DNOP	88.7	69-147		%Rec	1	3/22/2023 4:36:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/22/2023 5:06:31 PM
Surr: BFB	101	37.7-212		%Rec	1	3/22/2023 5:06:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/22/2023 5:06:31 PM
Toluene	ND	0.049		mg/Kg	1	3/22/2023 5:06:31 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/22/2023 5:06:31 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/22/2023 5:06:31 PM
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	3/22/2023 5:06:31 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	2200	150		mg/Kg	50	3/22/2023 2:19:19 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303A37

Date Reported: 3/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-141 40'

Project: East Pecos Pipeline Spill

Collection Date: 3/17/2023 9:00:00 AM

Lab ID: 2303A37-002

Matrix: SOIL

Received Date: 3/21/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/22/2023 4:47:37 PM
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	3/22/2023 4:47:37 PM
Surr: DNOP	89.8	69-147		%Rec	1	3/22/2023 4:47:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/22/2023 5:30:16 PM
Surr: BFB	103	37.7-212		%Rec	1	3/22/2023 5:30:16 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/22/2023 5:30:16 PM
Toluene	ND	0.048		mg/Kg	1	3/22/2023 5:30:16 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/22/2023 5:30:16 PM
Xylenes, Total	ND	0.095		mg/Kg	1	3/22/2023 5:30:16 PM
Surr: 4-Bromofluorobenzene	94.2	70-130		%Rec	1	3/22/2023 5:30:16 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	400	60		mg/Kg	20	3/21/2023 8:32:56 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303A37

Date Reported: 3/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-141 45'

Project: East Pecos Pipeline Spill

Collection Date: 3/17/2023 9:30:00 AM

Lab ID: 2303A37-003

Matrix: SOIL

Received Date: 3/21/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/22/2023 4:58:30 PM
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	3/22/2023 4:58:30 PM
Surr: DNOP	90.7	69-147		%Rec	1	3/22/2023 4:58:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/22/2023 5:54:04 PM
Surr: BFB	100	37.7-212		%Rec	1	3/22/2023 5:54:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/22/2023 5:54:04 PM
Toluene	ND	0.049		mg/Kg	1	3/22/2023 5:54:04 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/22/2023 5:54:04 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/22/2023 5:54:04 PM
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	1	3/22/2023 5:54:04 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	450	60		mg/Kg	20	3/21/2023 8:45:21 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2303A37

Date Reported: 3/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-141 50'

Project: East Pecos Pipeline Spill

Collection Date: 3/17/2023 10:00:00 AM

Lab ID: 2303A37-004

Matrix: SOIL

Received Date: 3/21/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/22/2023 5:09:22 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/22/2023 5:09:22 PM
Surr: DNOP	91.4	69-147		%Rec	1	3/22/2023 5:09:22 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/22/2023 6:17:48 PM
Surr: BFB	101	37.7-212		%Rec	1	3/22/2023 6:17:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/22/2023 6:17:48 PM
Toluene	ND	0.047		mg/Kg	1	3/22/2023 6:17:48 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/22/2023 6:17:48 PM
Xylenes, Total	ND	0.094		mg/Kg	1	3/22/2023 6:17:48 PM
Surr: 4-Bromofluorobenzene	92.7	70-130		%Rec	1	3/22/2023 6:17:48 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	290	60		mg/Kg	20	3/21/2023 8:57:46 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2303A37

Date Reported: 3/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-141 54 '

Project: East Pecos Pipeline Spill

Collection Date: 3/17/2023 10:00:00 AM

Lab ID: 2303A37-005

Matrix: SOIL

Received Date: 3/21/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/22/2023 5:20:12 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/22/2023 5:20:12 PM
Surr: DNOP	91.4	69-147		%Rec	1	3/22/2023 5:20:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/22/2023 6:41:28 PM
Surr: BFB	100	37.7-212		%Rec	1	3/22/2023 6:41:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	3/22/2023 6:41:28 PM
Toluene	ND	0.049		mg/Kg	1	3/22/2023 6:41:28 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/22/2023 6:41:28 PM
Xylenes, Total	ND	0.097		mg/Kg	1	3/22/2023 6:41:28 PM
Surr: 4-Bromofluorobenzene	91.3	70-130		%Rec	1	3/22/2023 6:41:28 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	300	60		mg/Kg	20	3/21/2023 9:59:48 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2303A37

Date Reported: 3/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-141 56'

Project: East Pecos Pipeline Spill

Collection Date: 3/17/2023 10:25:00 AM

Lab ID: 2303A37-006

Matrix: SOIL

Received Date: 3/21/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/22/2023 5:31:02 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/22/2023 5:31:02 PM
Surr: DNOP	92.2	69-147		%Rec	1	3/22/2023 5:31:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/22/2023 7:05:10 PM
Surr: BFB	101	37.7-212		%Rec	1	3/22/2023 7:05:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	3/22/2023 7:05:10 PM
Toluene	ND	0.049		mg/Kg	1	3/22/2023 7:05:10 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/22/2023 7:05:10 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/22/2023 7:05:10 PM
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	3/22/2023 7:05:10 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	290	60		mg/Kg	20	3/21/2023 10:12:13 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303A37

Date Reported: 3/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-141 59'

Project: East Pecos Pipeline Spill

Collection Date: 3/17/2023 10:25:00 AM

Lab ID: 2303A37-007

Matrix: SOIL

Received Date: 3/21/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/23/2023 10:26:07 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/23/2023 10:26:07 AM
Surr: DNOP	94.0	69-147		%Rec	1	3/23/2023 10:26:07 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/22/2023 6:39:00 PM
Surr: BFB	85.7	37.7-212		%Rec	1	3/22/2023 6:39:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/22/2023 6:39:00 PM
Toluene	ND	0.050		mg/Kg	1	3/22/2023 6:39:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/22/2023 6:39:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/22/2023 6:39:00 PM
Surr: 4-Bromofluorobenzene	86.2	70-130		%Rec	1	3/22/2023 6:39:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	270	60		mg/Kg	20	3/22/2023 3:21:22 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303A37

Date Reported: 3/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-141 64'

Project: East Pecos Pipeline Spill

Collection Date: 3/17/2023 10:50:00 AM

Lab ID: 2303A37-008

Matrix: SOIL

Received Date: 3/21/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/23/2023 10:36:31 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/23/2023 10:36:31 AM
Surr: DNOP	97.2	69-147		%Rec	1	3/23/2023 10:36:31 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/22/2023 7:44:00 PM
Surr: BFB	89.0	37.7-212		%Rec	1	3/22/2023 7:44:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/22/2023 7:44:00 PM
Toluene	ND	0.050		mg/Kg	1	3/22/2023 7:44:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/22/2023 7:44:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/22/2023 7:44:00 PM
Surr: 4-Bromofluorobenzene	88.2	70-130		%Rec	1	3/22/2023 7:44:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	270	61		mg/Kg	20	3/22/2023 3:33:47 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303A37

Date Reported: 3/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-141 69'

Project: East Pecos Pipeline Spill

Collection Date: 3/17/2023 10:50:00 AM

Lab ID: 2303A37-009

Matrix: SOIL

Received Date: 3/21/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/23/2023 10:47:00 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/23/2023 10:47:00 AM
Surr: DNOP	87.6	69-147		%Rec	1	3/23/2023 10:47:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/22/2023 8:49:00 PM
Surr: BFB	86.4	37.7-212		%Rec	1	3/22/2023 8:49:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/22/2023 8:49:00 PM
Toluene	ND	0.050		mg/Kg	1	3/22/2023 8:49:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	3/22/2023 8:49:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	3/22/2023 8:49:00 PM
Surr: 4-Bromofluorobenzene	85.8	70-130		%Rec	1	3/22/2023 8:49:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	220	60		mg/Kg	20	3/22/2023 3:46:12 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303A37

Date Reported: 3/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-141 74'

Project: East Pecos Pipeline Spill

Collection Date: 3/17/2023 11:20:00 AM

Lab ID: 2303A37-010

Matrix: SOIL

Received Date: 3/21/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/23/2023 10:57:27 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/23/2023 10:57:27 AM
Surr: DNOP	84.4	69-147		%Rec	1	3/23/2023 10:57:27 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/22/2023 9:11:00 PM
Surr: BFB	88.7	37.7-212		%Rec	1	3/22/2023 9:11:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/22/2023 9:11:00 PM
Toluene	ND	0.049		mg/Kg	1	3/22/2023 9:11:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/22/2023 9:11:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/22/2023 9:11:00 PM
Surr: 4-Bromofluorobenzene	88.8	70-130		%Rec	1	3/22/2023 9:11:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	210	60		mg/Kg	20	3/22/2023 3:58:36 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2303A37

Date Reported: 3/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-141 79'

Project: East Pecos Pipeline Spill

Collection Date: 3/17/2023 11:20:00 AM

Lab ID: 2303A37-011

Matrix: SOIL

Received Date: 3/21/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/23/2023 11:07:54 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/23/2023 11:07:54 AM
Surr: DNOP	88.7	69-147		%Rec	1	3/23/2023 11:07:54 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/22/2023 9:32:00 PM
Surr: BFB	88.6	37.7-212		%Rec	1	3/22/2023 9:32:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	3/22/2023 9:32:00 PM
Toluene	ND	0.049		mg/Kg	1	3/22/2023 9:32:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/22/2023 9:32:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/22/2023 9:32:00 PM
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	3/22/2023 9:32:00 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	180	60		mg/Kg	20	3/22/2023 4:11:00 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303A37

28-Mar-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: LCS-73849	SampType: LCS			TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 73849			RunNo: 95467						
Prep Date: 3/21/2023	Analysis Date: 3/21/2023			SeqNo: 3453504	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.1	90	110			

Sample ID: MB-73870	SampType: MBLK			TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 73870			RunNo: 95466						
Prep Date: 3/22/2023	Analysis Date: 3/22/2023			SeqNo: 3454460	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73870	SampType: LCS			TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 73870			RunNo: 95466						
Prep Date: 3/22/2023	Analysis Date: 3/22/2023			SeqNo: 3454461	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.2	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303A37

28-Mar-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: MB-73838	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73838	RunNo: 95454								
Prep Date: 3/21/2023	Analysis Date: 3/22/2023	SeqNo: 3453576 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.5		10.00		85.2	69	147			

Sample ID: LCS-73838	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73838	RunNo: 95454								
Prep Date: 3/21/2023	Analysis Date: 3/22/2023	SeqNo: 3453578 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	45	10	50.00	0	90.1	61.9	130			
Surr: DNOP	4.3		5.000		86.3	69	147			

Sample ID: MB-73862	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73862	RunNo: 95507								
Prep Date: 3/22/2023	Analysis Date: 3/23/2023	SeqNo: 3454629 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.6		10.00		96.2	69	147			

Sample ID: LCS-73862	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73862	RunNo: 95507								
Prep Date: 3/22/2023	Analysis Date: 3/23/2023	SeqNo: 3454630 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	60	10	50.00	0	119	61.9	130			
Surr: DNOP	6.2		5.000		124	69	147			

Sample ID: 2303A37-007AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-141 59'	Batch ID: 73862	RunNo: 95507								
Prep Date: 3/22/2023	Analysis Date: 3/23/2023	SeqNo: 3454632 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	43	9.4	47.08	0	90.4	54.2	135			
Surr: DNOP	4.2		4.708		89.9	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303A37

28-Mar-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: 2303A37-007AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BH22-141 59'	Batch ID: 73862	RunNo: 95507								
Prep Date: 3/22/2023	Analysis Date: 3/23/2023	SeqNo: 3454633	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.3	46.25	0	92.0	54.2	135	0.0736	29.2	
Surr: DNOP	4.3		4.625		94.0	69	147	0	0	

Sample ID: MB-73880	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73880	RunNo: 95507								
Prep Date: 3/22/2023	Analysis Date: 3/23/2023	SeqNo: 3455424	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		100	69	147			

Sample ID: MB-73881	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73881	RunNo: 95507								
Prep Date: 3/22/2023	Analysis Date: 3/23/2023	SeqNo: 3455426	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		110	69	147			

Sample ID: LCS-73880	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73880	RunNo: 95507								
Prep Date: 3/22/2023	Analysis Date: 3/23/2023	SeqNo: 3455488	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		106	69	147			

Sample ID: LCS-73881	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73881	RunNo: 95507								
Prep Date: 3/22/2023	Analysis Date: 3/24/2023	SeqNo: 3455489	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		100	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303A37

28-Mar-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: lcs-73832	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 73832				RunNo: 95464					
Prep Date: 3/21/2023	Analysis Date: 3/22/2023				SeqNo: 3453426	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	70	130			
Surr: BFB	2100		1000		213	37.7	212			S

Sample ID: mb-73832	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 73832				RunNo: 95464					
Prep Date: 3/21/2023	Analysis Date: 3/22/2023				SeqNo: 3453427	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	37.7	212			

Sample ID: lcs-73834	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 73834				RunNo: 95490					
Prep Date: 3/21/2023	Analysis Date: 3/22/2023				SeqNo: 3454506	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.4	70	130			
Surr: BFB	2100		1000		207	37.7	212			

Sample ID: mb-73834	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 73834				RunNo: 95490					
Prep Date: 3/21/2023	Analysis Date: 3/22/2023				SeqNo: 3454507	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	870		1000		87.4	37.7	212			

Sample ID: 2303A37-007ams	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH22-141 59'	Batch ID: 73834				RunNo: 95490					
Prep Date: 3/21/2023	Analysis Date: 3/22/2023				SeqNo: 3454509	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.68	0	103	70	130			
Surr: BFB	2000		987.2		205	37.7	212			

Sample ID: 2303A37-007amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH22-141 59'	Batch ID: 73834				RunNo: 95490					
Prep Date: 3/21/2023	Analysis Date: 3/22/2023				SeqNo: 3454510	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303A37

28-Mar-23

Client: Vertex Resources Services, Inc.

Project: East Pecos Pipeline Spill

Sample ID: 2303A37-007amsd		SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH22-141 59'		Batch ID: 73834			RunNo: 95490					
Prep Date: 3/21/2023		Analysis Date: 3/22/2023			SeqNo: 3454510		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.73	0	93.8	70	130	9.23	20	
Surr: BFB	2000		989.1		201	37.7	212	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2303A37

28-Mar-23

Client: Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: LCS-73832	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 73832			RunNo: 95464						
Prep Date: 3/21/2023	Analysis Date: 3/22/2023			SeqNo: 3453431			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.7	80	120			
Toluene	0.91	0.050	1.000	0	91.5	80	120			
Ethylbenzene	0.92	0.050	1.000	0	91.8	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: mb-73832	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 73832			RunNo: 95464						
Prep Date: 3/21/2023	Analysis Date: 3/22/2023			SeqNo: 3453432			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		93.7	70	130			

Sample ID: lcs-73834	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 73834			RunNo: 95490						
Prep Date: 3/21/2023	Analysis Date: 3/22/2023			SeqNo: 3454533			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.8	80	120			
Toluene	0.90	0.050	1.000	0	90.4	80	120			
Ethylbenzene	0.89	0.050	1.000	0	88.6	80	120			
Xylenes, Total	2.6	0.10	3.000	0	87.7	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.1	70	130			

Sample ID: mb-73834	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 73834			RunNo: 95490						
Prep Date: 3/21/2023	Analysis Date: 3/22/2023			SeqNo: 3454534			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.88		1.000		87.7	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **2303A37****28-Mar-23****Client:** Vertex Resources Services, Inc.**Project:** East Pecos Pipeline Spill

Sample ID: 2303A37-008ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-141 64'	Batch ID: 73834	RunNo: 95490								
Prep Date: 3/21/2023	Analysis Date: 3/22/2023	SeqNo: 3454537 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.024	0.9662	0	91.9	68.8	120			
Toluene	0.90	0.048	0.9662	0	93.5	73.6	124			
Ethylbenzene	0.90	0.048	0.9662	0	93.0	72.7	129			
Xylenes, Total	2.7	0.097	2.899	0	91.8	75.7	126			
Surr: 4-Bromofluorobenzene	0.86		0.9662		89.1	70	130			

Sample ID: 2303A37-008amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BH22-141 64'	Batch ID: 73834	RunNo: 95490								
Prep Date: 3/21/2023	Analysis Date: 3/22/2023	SeqNo: 3454538 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9785	0	93.1	68.8	120	2.56	20	
Toluene	0.93	0.049	0.9785	0	94.8	73.6	124	2.65	20	
Ethylbenzene	0.92	0.049	0.9785	0	94.0	72.7	129	2.29	20	
Xylenes, Total	2.7	0.098	2.935	0	93.0	75.7	126	2.57	20	
Surr: 4-Bromofluorobenzene	0.88		0.9785		90.0	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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

Sample Log-In Check List

Client Name: Vertex Resources
Services, Inc.

Work Order Number: 2303A37

RcptNo: 1

Received By: Cheyenne Cason 3/21/2023 7:30:00 AM

Completed By: Tracy Casarrubias 3/21/2023 7:48:41 AM

Reviewed By: *js* 3-21-23

Chad

Chain of Custody

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

Log In

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

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *js* 3/21/23

Special Handling (if applicable)

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

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

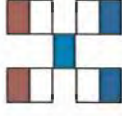
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good	Yes	Yogi		
2	0.2	Good	Yes	<i>Yogi</i>		

3/21/23



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Turn-Around Time:

☐ Standard ☒ Rush 48-hr

Project Name:

East Pecos Pipeline Spill

Project #:

22E-03982

Project Manager:

Kent Stallings

kstallings@vertex.ca

Sampler: L. Pullman

On Ice: ☒ Yes ☐ No Log:

of Coolers: 2 0.8 + 0.1 = 0.9

Cooler Temp (including CFI): 0.1 + 0.1 = 0.2

Container Type and #

Preservative Type

HEAL No. 2303A37

Date Time Matrix Sample Name

03/17/23 8:45 Soil BH22-141 30'

03/17/23 9:00 Soil BH22-141 40'

03/17/23 9:30 Soil BH22-141 45'

03/17/23 10:00 Soil BH22-141 50'

03/17/23 10:00 Soil BH22-141 54'

03/17/23 10:25 Soil BH22-141 56'

03/17/23 10:25 Soil BH22-141 59'

03/17/23 10:50 Soil BH22-141 64'

03/17/23 10:50 Soil BH22-141 69'

03/17/23 11:20 Soil BH22-141 74'

03/17/23 11:20 Soil BH22-141 79'

Date Time Relinquished by

3-20-23 07:00 [Signature]

Date Time Relinquished by

3/20/23 10:00 [Signature]

Date Time Relinquished by

3/20/23 10:00 [Signature]

Date Time Relinquished by

3/20/23 10:00 [Signature]

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3/20/23 10:00 [Signature]

Date Time Relinquished by

3/20/23 10:00 [Signature]

Date Time Relinquished by

3/20/23 10:00 [Signature]

Analysis Request

TPH: 8015D (GRO / DRO / MRO) ☒ BTEX / MTBE / TMBs (8021)

8081 Pesticides/8082 PCB's ☒

EDB (Method 504.1) ☒

PAHs by 8310 or 8270SIMS ☒

RCRA 8 Metals ☒

C, F, Br, NO₃, NO₂, PO₄, SO₄ ☒

8260 (VOA) ☒

8270 (Semi-VOA) ☒

Total Coliform (Present/Absent) ☒

Remarks:

Direct bill to Devon, Jim Raley
cc. kstallings@vertex.ca and mpeppin@vertex.ca for Final Report

V1

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 noted on the analytical report.

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 211391

CONDITIONS

Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289
	Action Number: 211391
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Thank you for the Site Assessment and Groundwater Investigation Well Development Plan. Devon will install 7 borings to delineate the vertical extent of chlorides and hydrocarbons in the soil. Soil samples will be collected every ten (10) feet thereafter until chloride decreases below 600 mg/kg or groundwater is encountered. Groundwater is expected to occur around 55-65 feet below ground surface. Survey wells for top of elevation (top of casing and ground) for groundwater potentiometric surface elevation, flow direction, and gradient. The OCD is in agreement with the monitoring well construction and installation method. After the boreholes have been logged, please submit a full remediation plan that includes a full geological cross-section showing the lithology below the release site. Also, please include full delineation and proposed excavation depths.	5/8/2023