



February 6, 2025

District Supervisor  
Oil Conservation Division, District 1  
1625 North French Drive  
Hobbs, New Mexico 88240

**Re: Site Characterization and Remediation Work Plan  
Breitburn Operating, LP  
Jalmat Field Yates Sand Unit #216  
Unit Letter E, Section 24, Township 22 South, Range 35 East  
Lea County, New Mexico  
NMOCD Incident ID# nPAC0534851527**

Dear Sir or Madam,

Tetra Tech, Inc. (Tetra Tech) was contracted by Breitburn Operating, LP (Breitburn) to assist with the management of a historic release of oil associated with the Jalmat Field Yates Sand Unit #216 well, Unit Letter E, Section 24, Township 22 South, Range 35 East, in Lea County, New Mexico, at coordinates 32.3775177°, -103.329216° (Site). The location is shown in **Figure 1**.

## BACKGROUND

According to the New Mexico Oil Conservation District (NMOCD) online OCD Permitting nPAC0534851527 Incident Details, on November 4, 2005, Breitburn reported that a flowline leak around the wellhead resulted in overspray of 3 barrels (bbls) of oil and 4 bbls of produced water across an area of 150 feet by 200 feet. According to available information, a vacuum truck and backhoe were mobilized to the site to conduct a release cleanup during the initial response. The release notification was submitted to NMOCD and subsequently assigned release Incident Identification (ID) nPAC0534851527. Based on the release narrative, the release is understood to have occurred in an area surrounding the wellhead, and the 100-foot by 200-foot area described is shown in **Figure 2** and discussed below.

## SITE CHARACTERIZATION

### Receptors

Tetra Tech performed a site characterization for the release location. It did not identify any watercourses, sinkholes, playas, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains within the distances specified in 19.15.29.11 New Mexico Administrative Code (NMAC). Based on a review of the NMOCD Mapper, the site is in an area of medium karst potential. The site characterization data is included in **Attachment 1**.

### Depth to Groundwater

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geologic Survey (USGS) groundwater databases was completed to determine the proximity of known water sources. No known water wells are present within ½ mile of the Site. The nearest groundwater well is J-00040-POD1, located approximately 1.15 miles east of the Site, with a documented depth to groundwater of 270 feet below ground surface (bgs).

**Tetra Tech, Inc.**

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**Tel** +1.832.251.5160 | [tetratech.com/oga](http://tetratech.com/oga) | [tetratech.com](http://tetratech.com)

Site Characterization and Remediation Work Plan  
Jalmat Yates Field Sand Unit #216  
Incident ID# nPAC0534851527

Breitburn Operating, LP  
February 6, 2025

## Wetlands

Readily available data were reviewed to determine the status of the Site regarding wetland designation or potential wetlands existence. The U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) Wetlands Interactive Mapper and the New Mexico OpenEnviroMap were queried to determine if any potential wetlands are mapped near the reclamation locations. Based on the NWI and OpenEnviroMap review, The Site is not identified as having a mapped wetland within 300 feet of the Site.

## Biologically Sensitive Areas

Readily available data were reviewed to determine if the Site lies within biologically sensitive areas. The U.S. Fish and Wildlife Services (USFWS) Information for Planning and Consultation (IPaC) and the New Mexico Department of Game and Fish (NMDGF) Environmental Review Tool (ERT) were queried to determine if sensitive wildlife or plant areas are present at the Site. The Site is not identified within biologically sensitive areas where reclamation would impact sensitive wildlife or plant habitats.

## Cultural Properties Protection

The remediation area at the Site is located in previously disturbed areas developed for oil and gas extraction; therefore, a cultural resource survey will not be required at the Site for planned remediation activities as they are not planned to extend beyond the previously disturbed areas. If remediation or remediation activities are required to expand into undisturbed areas, the requirements of the Cultural Properties Protection (CCP) Rule will be followed.

## Soils

According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the Site is mapped as Pyote and Maljamar fine sands, a sandy soil type.

## REGULATORY FRAMEWORK

Based upon the release footprint location and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels for Benzene, Toluene, Ethylbenzene, and Xylene (BTEX), Total Petroleum Hydrocarbons (TPH) in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site for unproven depth to groundwater within ½ mile of the Site are as follows:

### Reclamation Requirements

Constituent	Remediation RRAL
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

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## **HISTORICAL AERIAL IMAGERY REVIEW**

A historical imagery review of the release site shows the well pad under construction in the July 2005 aerial image, which shows a newly constructed and empty well pad with a reserve pit under construction off of the north side of the well pad. The subsequent aerial image captured after the release, dated August 2009, shows the reclaimed reserve pit area before revegetation and the well pad with a pumpjack over the wellhead. No evidence of the release footprint is evident in aerial imagery reviews.

## **REMEDIATION WORK PLAN**

### **Site Assessment/Remediation Validation**

Breitburn proposes to mobilize to the Site and conduct Site Assessment Sampling of the release footprint to assess the release area. Soil samples are proposed to be collected with one discrete sample location per 400 square feet across the apparent release. Three samples are proposed to be collected from each sample location at depths of 1 to 2 feet bgs, and 3 to 4 feet bgs. Samples will be submitted for laboratory analysis of BTEX by Method 8021B, TPH by Method 8015M, and chloride by Method SM4500 Cl-B. Assessment samples will be placed in the footprint shown in Figure 2 that corresponds generally with the release narrative, and additional assessment samples will be collected as needed until the release footprint has been laterally delineated.

### **Remediation Work Plan**

Based on the analytical results from the assessment, Breitburn will excavate and dispose of impacted material within the release and surrounding area until confirmation samples demonstrate impacts above Reclamation Requirements have been remediated within the release footprint both laterally and vertically.

Heavy equipment will come no more than two feet from any pressurized lines. Impacted soils within the vicinity of the surface and subsurface lines that intersect the release footprint will be excavated with hydro-vac excavation or dug by hand to the maximum extent practicable.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. Sampling notification will be submitted to the NMOCD in accordance with 19.15.29.12 NMAC. Once final analytical results are received demonstrating clean margins the excavation will then be backfilled with clean material to surface grade sourced from a local supplier prior to preparing the seed bed and reseeded the area. Based on available information, no material appears need to be remediated, however, Site Assessment and Remediation Validation sampling will guide the actual volumes required.

### **Alternative Confirmation Sampling Plan**

In accordance with 19.15.29.12(D)(1)(b) NMAC, Breitburn requests an alternative confirmation sampling plan to adhere to NMOCD requirements that includes sidewall and base confirmation sampling representative of 400 square feet of any required excavation base or sidewall area. Breitburn proposes to submit samples for Laboratory for analysis of, BTEX by Method 8260B, TPH by Method 8015M, and chloride by Method 4500Cl-B. Once results are received demonstrating clean margins, the excavation will then be backfilled with clean material to surface grade.

Site Characterization and Remediation Work Plan  
Jalmat Yates Field Sand Unit #216  
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## CONCLUSION

Based on historical reviews of available release incident data and historical aerial imagery, the release associated with Incident nPAC0534851527, reported on November 4, 2005, reportedly occurred on the well pad emanating from the flowline connected to the wellhead. The release footprint is reported as overspray, covering approximately 100 feet by 200 feet. A 100-foot by 200-foot area has been overlaid centered on the wellhead in **Figure 2** to provide a starting point for assessment and remediation activities.

The Remediation Work Plan presents an assessment methodology to assess any residual impacts from the historic release and conduct any necessary remediation to remediate the Site to current reclamation standards based on the assessment results. If you have any questions concerning the contents of this work plan, please contact Charles Terhune by email at Charles.Terhune@tetrattech.com or by phone at (832) 252-2093.

Sincerely,



Charles Terhune IV, P.G.  
Program Manager  
Tetra Tech, Inc.



Chris Straub  
Project Manager  
Tetra Tech, Inc.

cc: Mr. Bryce Wagoner, Breitburn Operating, LP  
New Mexico State Land Office

Site Characterization and Remediation Work Plan  
Jalmat Yates Field Sand Unit #216  
Incident ID# nPAC0534851527

Breitburn Operating, LP  
February 6, 2025

## **LIST OF ATTACHMENTS**

### **Figures**

Figure 1 – Overview and Topographic Map

Figure 2 – Approximate Release Extent and Site Assessment Map

### **Attachments**

Attachment 1 – Site Characterization Data

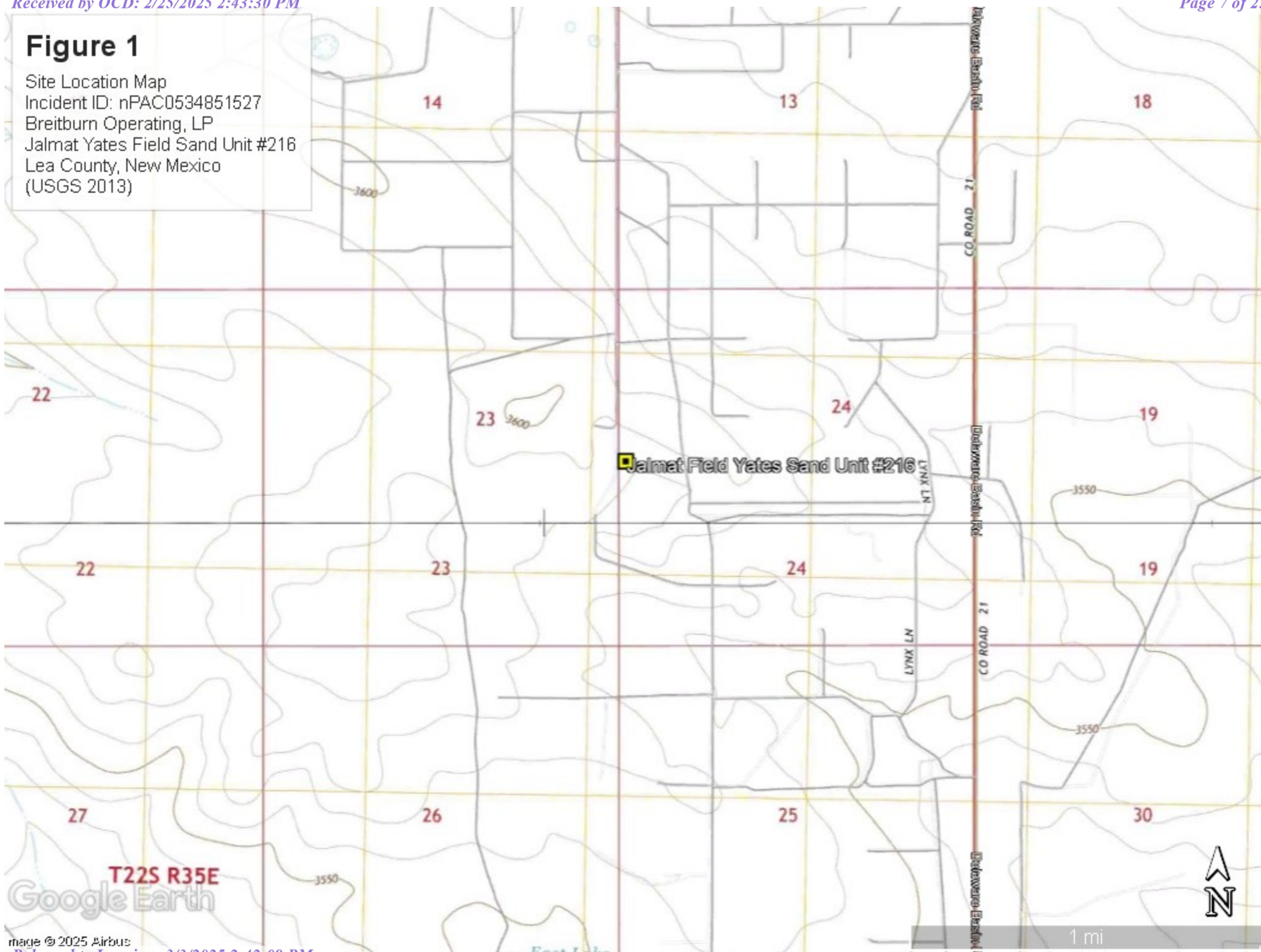
Site Characterization and Remediation Work Plan  
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February 6, 2025

## FIGURES

# Figure 1

Site Location Map  
Incident ID: nPAC0534851527  
Breitburn Operating, LP  
Jalmat Yates Field Sand Unit #216  
Lea County, New Mexico  
(USGS 2013)






## Figure 2

Approximate Release Extent and Site Assessment Map  
Incident ID: nPAC0534851527  
Breitburn Operating, LP  
Jalmat Yates Field Sand Unit #216  
Lea County, New Mexico

### Legend

 Approximate Release Extent



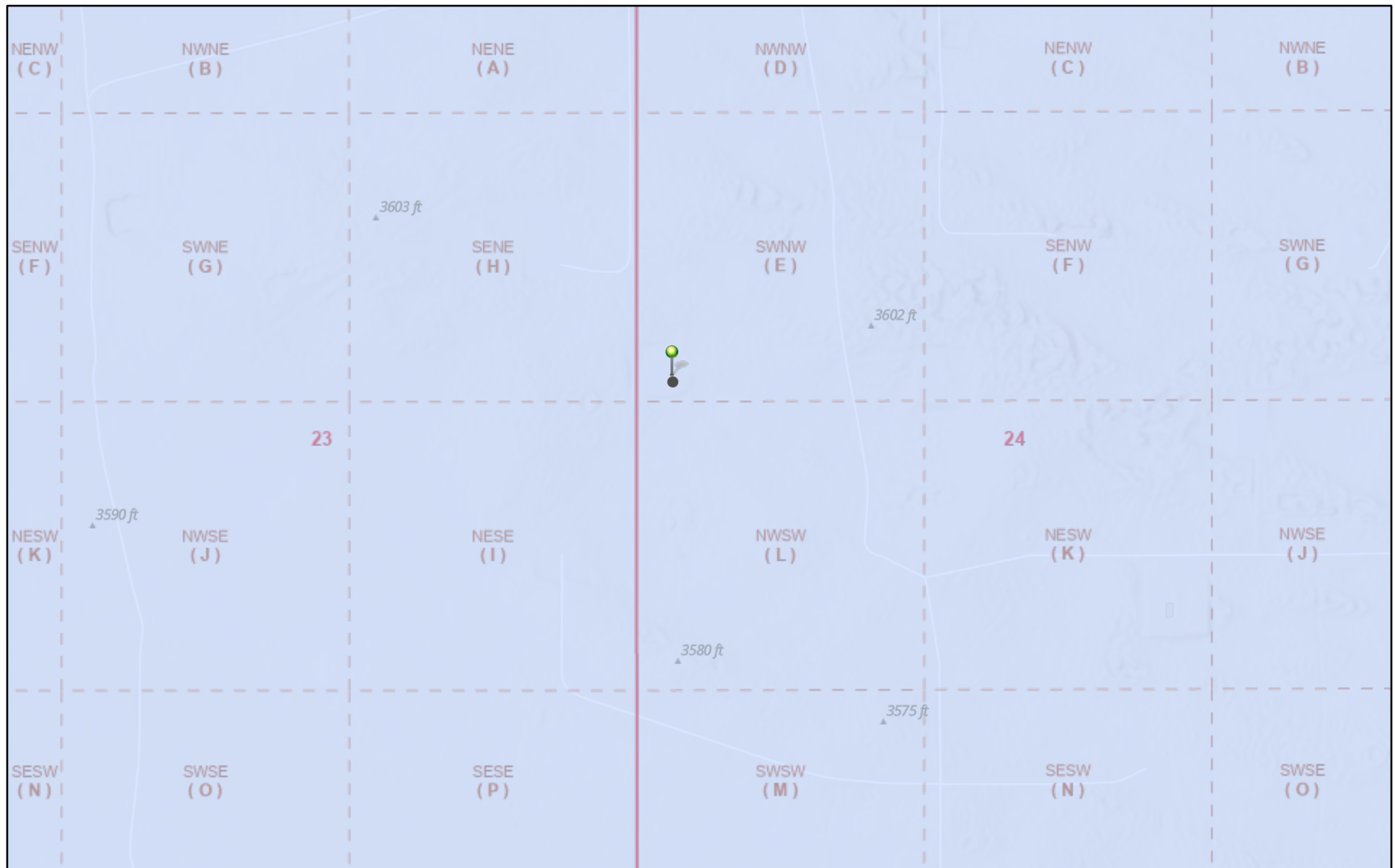


Site Characterization and Remediation Work Plan  
Jalmat Yates Field Sand Unit #216  
Incident ID# nPAC0534851527

Breitburn Operating, LP  
February 6, 2025

## **ATTACHMENT 1 – SITE CHARACTERIZATION DATA**

## Jalmat Field Yates Sand Unit #216



12/6/2024, 3:07:48 PM



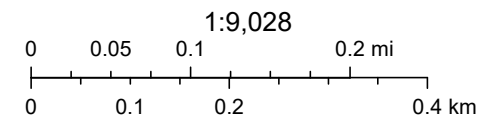
Override 1

Karst Occurrence Potential

Low

PLSS Second Division

PLSS First Division



BLM, OCD, New Mexico Tech, Esri, NASA, NGA, USGS, FEMA, USGS, OCD, Esri Community Maps Contributors, New Mexico State University,

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-ernrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division

Soil Map—Lea County, New Mexico  
(Jalmat Field Yates Sand Unit #216)



Natural Resources  
Conservation Service

Web Soil Survey  
National Cooperative Soil Survey

12/6/2024  
Page 1 of 3

Soil Map—Lea County, New Mexico  
(Jalmat Field Yates Sand Unit #216)

## 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: Lea County, New Mexico

Survey Area Data: Version 21, Sep 3, 2024

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

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

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



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PU	Pyote and Maljamar fine sands	3.9	100.0%
Totals for Area of Interest		3.9	100.0%



## Jalmat Field Yates Sand Unit #216



December 6, 2024

**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.



# National Flood Hazard Layer FIRMMette



103°20'4"W 32°22'54"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°19'26"W 32°22'24"N

Released to Imaging: 3/3/2025 2:42:09 PM

Basemap Imagery Source: USGS National Map 2023

## 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
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		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 **2/6/2025 at 5:00 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.

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 Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	J 00040 POD1	SE	NW	SW	18	26N	36E	658962.2	3583082.0	

\* UTM location was derived from PLSS - see Help

Driller License:

1723

Driller Company:

SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.

Driller Name:

STEWART, RANDAL P.EE.NER

Drill Start Date:

2019-07-14

Drill Finish Date:

2019-07-14

Plug Date:

2019-07-14

Log File Date:

2020-01-02

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

Depth Water:

270

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.

12/26/24 7:49 AM MST

Point of Diversion Summary

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**From:** [Terhune, Chuck](#)  
**To:** [Wells, Shelly, EMNRD](#)  
**Subject:** [EXTERNAL] RE: NPAC0534851527 JALMAT FIELD YATES SAND UNIT #216  
**Date:** Monday, March 3, 2025 12:11:46 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)  
[image005.png](#)

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Good afternoon Shelly,

I had intended to propose two samples per location in the workplan and somehow three got stuck in there. Apologies for the confusion.

Best Regards,

**Chuck Terhune, P.G. | Program Manager**  
Mobile +1 (281) 755-8965 | Business +1 (832) 252-2093  
[chuck.terhune@tetrattech.com](mailto:chuck.terhune@tetrattech.com)

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**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Monday, March 3, 2025 12:36 PM  
**To:** Terhune, Chuck <Chuck.Terhune@tetrattech.com>  
**Subject:** NPAC0534851527 JALMAT FIELD YATES SAND UNIT #216

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Hi Chuck,

I am reviewing the remediation plan submitted for the following release and a question for you. On pg. 3 of the report it says: " Three samples are proposed to be collected from

each sample location at depths of 1 to 2 feet bgs, and 3 to 4 feet bgs.” There are only two sample depths listed here but you say you will collect 3 samples at each location. Can you please explain what the third sample depth would be?

Kind regards,

Shelly

Shelly Wells \* Environmental Specialist-Advanced  
Environmental Bureau  
EMNRD-Oil Conservation Division  
1220 S. St. Francis Drive|Santa Fe, NM 87505  
(505)469-7520 [Shelly.Wells@emnrd.nm.gov](mailto:Shelly.Wells@emnrd.nm.gov)  
<http://www.emnrd.state.nm.us/OCD/>

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 435316

**QUESTIONS**

Operator: BREITBURN OPERATING LP 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 370080
	Action Number: 435316
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nPAC0534851527
Incident Name	NPAC0534851527 JALMAT FIELD YATES SAND UNIT #216 @ 30-025-37277
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-37277] JALMAT FIELD YATES SAND UNIT #216

**Location of Release Source**

Please answer all the questions in this group.

Site Name	JALMAT FIELD YATES SAND UNIT #216
Date Release Discovered	11/04/2005
Surface Owner	State

**Incident Details**

Please answer all the questions in this group.

Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Crude Oil   Released: 3 BBL   Recovered: 3 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Produced Water   Released: 4 BBL   Recovered: 4 BBL   Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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

QUESTIONS, Page 2

Action 435316

**QUESTIONS (continued)**

Operator: BREITBURN OPERATING LP 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 370080
	Action Number: 435316
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: <a href="mailto:chuck.terhune@tetrattech.com">chuck.terhune@tetrattech.com</a> Date: 02/25/2025
--	--



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

QUESTIONS, Page 3

Action 435316

**QUESTIONS (continued)**

Operator: BREITBURN OPERATING LP 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 370080
	Action Number: 435316
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	0
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	04/01/2025
On what date will (or did) the final sampling or liner inspection occur	05/10/2025
On what date will (or was) the remediation complete(d)	06/10/2025
What is the estimated surface area (in square feet) that will be reclaimed	21000
What is the estimated volume (in cubic yards) that will be reclaimed	3200
What is the estimated surface area (in square feet) that will be remediated	21000
What is the estimated volume (in cubic yards) that will be remediated	3200
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 4

Action 435316

**QUESTIONS (continued)**

Operator: BREITBURN OPERATING LP 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 370080
	Action Number: 435316
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Chuck Terhune Title: Program Manager Email: <a href="mailto:chuck.terhune@tetrattech.com">chuck.terhune@tetrattech.com</a> Date: 02/25/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 435316

**QUESTIONS (continued)**

Operator:  BREITBURN OPERATING LP 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:  370080
	Action Number:  435316
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<i>Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 435316

QUESTIONS (continued)

Operator:  BREITBURN OPERATING LP 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID:  370080
	Action Number:  435316
	Action Type:  [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No



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CONDITIONS

Action 435316

CONDITIONS

Operator: BREITBURN OPERATING LP 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 370080
	Action Number: 435316
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved. Submit remediation closure report to the OCD by 6/2/25.	3/3/2025