ENSOLUM

November 11, 2022

Oxy USA Inc.
PO Box 4294
Houston, TX 77210
Attn: Mr. Wade Dittrich

Re: Remediation Work Plan
Sundance SDS 11-1 SWD
Off Hwy 128
32.228333° N, 103.731944° W
Eddy County, New Mexico
Incident ID: nAPP2224356841
Ensolum Project No. 03B1417061

Dear Mr. Dittrich:

Ensolum, LLC. (Ensolum) has prepared this Remediation Work Plan to perform environmental consulting services in the vicinity of the Sundance SDS 11-1 SWD, referred to hereinafter as the "Site." The Site is located off Buck Jackson Road and an unnamed caliche road, approximately 20 miles east of Malaga in Eddy County, New Mexico.

I. SITE DESCRIPTION & BACKGROUND

Operator:	Oxy USA Inc. (Oxy)
Site Name:	Sundance SDS 11-1 SWD
Location:	32.228333° N, 103.731944° W Eddy County, New Mexico
Property:	Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

The Site is located in Unit K, Section 11, Township 24 South, Range 31 East, in Eddy County, New Mexico (32.228333° N, 103.731944° W) and is associated with oil and gas exploration and production operations on BLM Federal Land.

On August 30, 2022, a release of produced water was reported from a 4-inch poly line failure on the Sundance saltwater disposal (SWD) line. Approximately 50 barrels (bbls) of crude oil and approximately 340 bbls of produced water were released. The line was immediately repaired with no produced water recovered. Oxy reported the release to the NMOCD and BLM through email notification on August 31, 2022. The release was assigned Incident Number nAPP2224356841.

On September 27, 2022, Ensolum arrived on-Site and collected four composite floor soil samples (FS-1 through FS-4) from depths ranging from a quarter of a foot to two feet below ground surface (bgs) within the release area. Additionally, four (4) delineation composite soil samples (North, East, South, and West) collected down to a depth of a quarter of a foot bgs to determine the horizontal and vertical extent of the release.

Based on the analytical results from the soil samples collected and the lack of a water well within 0.5 mile from the Site, the New Mexico Administrative Code (NMAC) 19.15.29 *Releases* Table I: Closure Criteria for Soils Impacted by a Release (≤ 50 feet) values were utilized. The composite floor soil samples and delineation composite soil sample results are included as **Table 1** in **Attachment C**.

The Site Map indicating the overall area of the release, the composite pothole soil sample's locations, and the delineation composite soil sample's locations are included as **Figure 3** in **Attachment A**.

II. CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references NMAC 19.15.29 *Releases,* which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum utilized information provided by Oxy, the general site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to determine the appropriate closure criteria for the Site. Closure criteria supporting documentation is included in **Attachment B**.

- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or any other significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet from an occupied permanent residence, school, hospital, institution, or church.
- According to the OSE WRSS database there are no private, domestic freshwater wells used by less than five (5) households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database there are no freshwater wells identified within 1,000 feet of the Site as declared in the previous bullet.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- Based on the Karst Occurrence Potential (.kmz) provided by the BLM, the Site is not located within an unstable area.
- The Site is not located within a 100-year floodplain.

Based on the identified siting criteria, cleanup goals for soils remaining in place at the Site include:

Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
≤50 feet	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

III. SCOPE OF SERVICES

A. Health and Safety Plan

Ensolum will develop a site-specific Health and Safety Plan (HSP) for the performance of the scope of services described in this Remediation Work Plan. For the purposes of this HSP, it is assumed that the constituents of concern (COCs) include petroleum hydrocarbons. For the purposes of this proposal, it is assumed that the scope of services can be conducted under modified Level D personal protective equipment (PPE), which will include fire-retardant (FR) clothing, hard hat, steel-toed boots, protective eyewear and gloves. Should the need arise to upgrade PPE (e.g. respiratory protection), the client will be notified, and the HSP will be modified accordingly. Although it is not anticipated at this time, it should be noted that a PPE upgrade will constitute a change in scope of work, requiring a change order.

B. Soil Boring Installation

Due to the absence of water wells being present within 0.5 mile of the Site, one (1) soil boring will be installed to determine the depth to groundwater in the area. The soil boring will be advanced utilizing an air rotary drilling rig, under the supervision of a state-licensed water well driller. The soil boring will be left open for approximately 72 hours to allow groundwater, if encountered, to reach static level.

Prior to initiation of drilling activities, an *Application for Permit to Drill a Well with No Consumptive Use of Water (WR-07)* will be submitted to the New Mexico OSE prior to the installation of the soil boring. In preparation for the potential encounter of groundwater, a *Well Plugging Plan of Operations (WD-08)* will be submitted to the New Mexico OSE prior to the installation of the soil boring.

If groundwater is not encontered, soil cuttings will be placed back in the bore hole and capped with bentonite sebsequent to installation and the 72 hour waiting period.

Drilling equipment will be decontaminated by high pressure cleaning prior to commencement of the project. A boring log will be created using drill cuttings from the air rotary rig to document lithology, color, relative moisture content and visual or olfactory evidence of impairment.

C. Excavation Activities

Subsequent to soil boring installation activities, the Site will be excavated by a third-party contractor to remove impacted soils in the release area based on laboratory analytical data, olfactory and/or visual evidence of impairment. At this time, approximately 642 cubic yards (cy) will be excavated form the release area. The excavated impacted soils will be placed on plastic on-Site and will be taken off-Site for proper disposal once laboratory analytical results return. The remediation will be completed within 90 days of approval from the NMOCD.

D. Confirmation Composite Soil Sampling Program

Once excavation activities are complete, Ensolum will collect additional confirmation composite soil samples every 1,000 square-feet from the bottomhole and sidewalls of the release area based on the following criteria:

- Highest photoionization detector (PID) reading;
- Highest electrical conductivity reading;
- Change in lithology; or
- Bottom of the excavation.

E. Laboratory Analytical Program

The soil samples collected from the proposed confirmation composite samples will be analyzed for total petroleum hydrocarbons (TPH) gasoline range organics (GRO)/ diesel range organics (DRO)/ motor oil/lube oil range organics (MRO) utilizing Environmental Protection Agency (EPA) SW-846 Method 8015M, benzene, toluene, ethylbenzene and xylene (BTEX) utilizing EPA SW-846 Method 8021B, and chloride utilizing EPA Method SM4500 Cl B under the NMOCD Closure Criteria for Soils Impacted by a Release (≤50 feet). Based on the results of the soil boring installation and depth to groundwater (if encountered), the Closure Criteria limits for TPH (GRO/DRO/MRO), BTEX, benzene and/or chloride is subject to change.

IV. REPORTING

Subsequent to the completion of Site activities, a Closure Report will be prepared by Ensolum to document completed site investigation and remediation activities as well as any corrective action at the Site, if needed.

V. DELIVERABLES

The results, findings, conclusions, and recommendations, which will be provided in the Closure Report, will be based solely on the conditions which are observed during the site investigation and the information reviewed by Ensolum. No warranties or representations, expressed or implied, will be made as to the condition of the site beyond that observed by Ensolum during its site investigation.

We appreciate the opportunity to provide this Remediation Work Plan and look forward to working with you on this project. If you should have any questions or comments regarding this Remediation Work Plan, please contact either of the undersigned.

Sincerely,
Ensolum, LLC

Heather Holthaus
Senior Project Manager
hholthaus@ensolum.com

Beaux Jennings
Senior Project Manager
bjennings@ensolum.com

Attachments:

Attachment A – Figures

Attachment B – Supporting Documentation

Attachment C – Photographic Documentation

Attachment D – Table 1 – Soil Sample Analytical Results

Attachment E – Laboratory Report & Chain-of-Custody Documentation

Attachment F – C-141 Documentation

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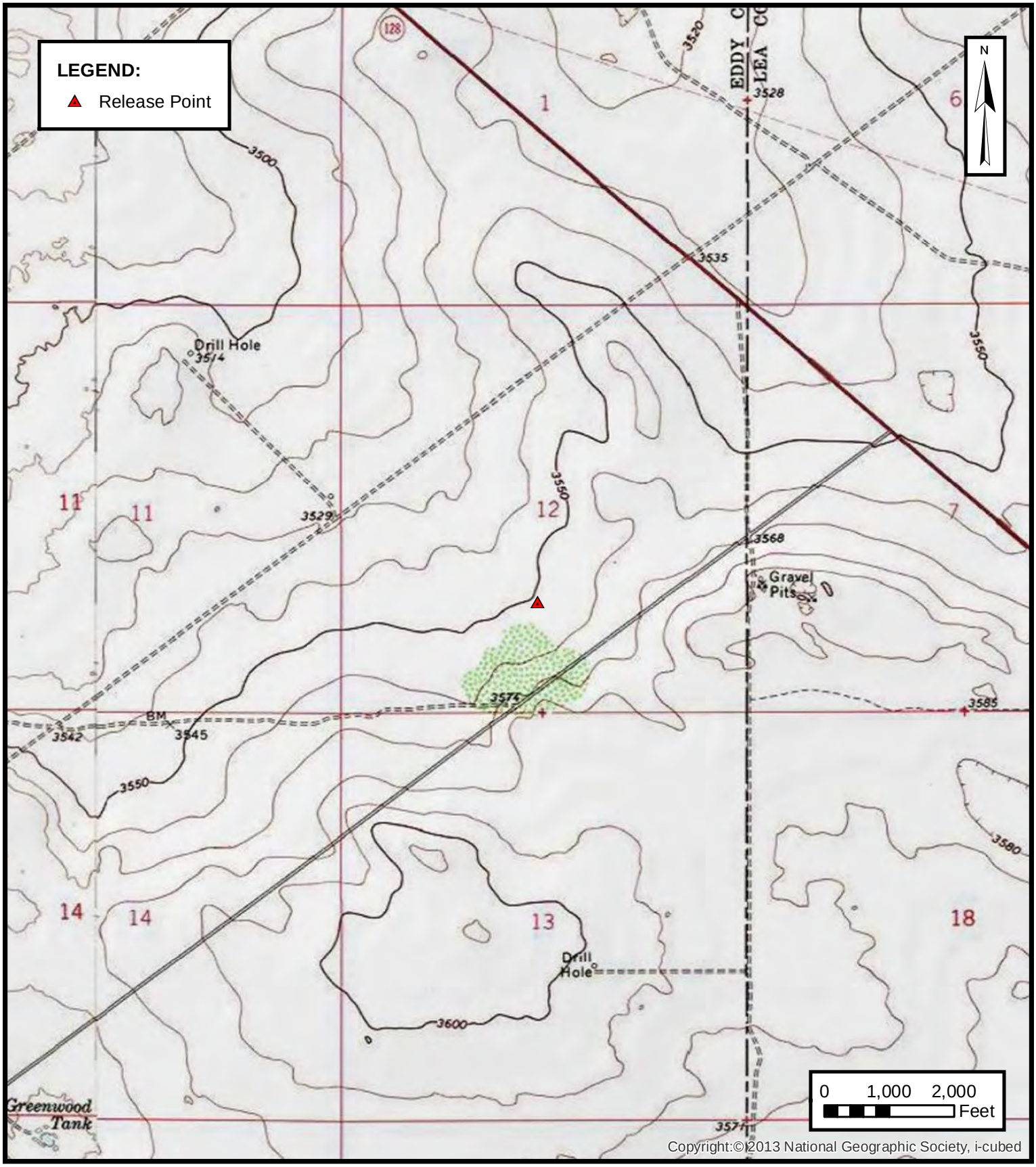
ATTACHMENT A

Figures



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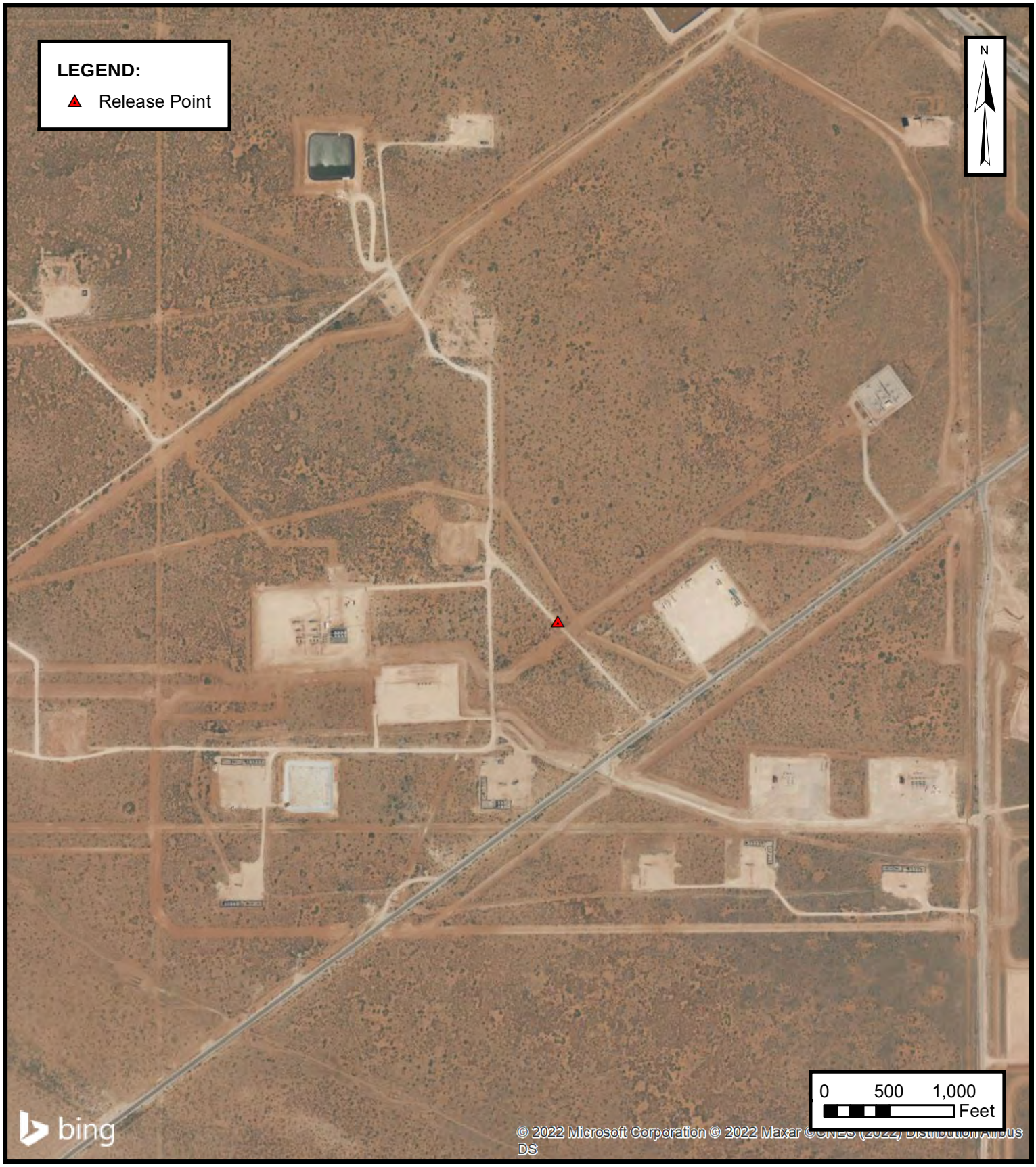
Environmental, Engineering and Hydrogeologic Consultants

TOPOGRAPHIC MAP

OXY USA INC.
SUNDANCE SDS 11-1 SWD
Eddy County, New Mexico
32.228333° N, 103.731944° W

PROJECT NUMBER: 03B1417061

FIGURE
1



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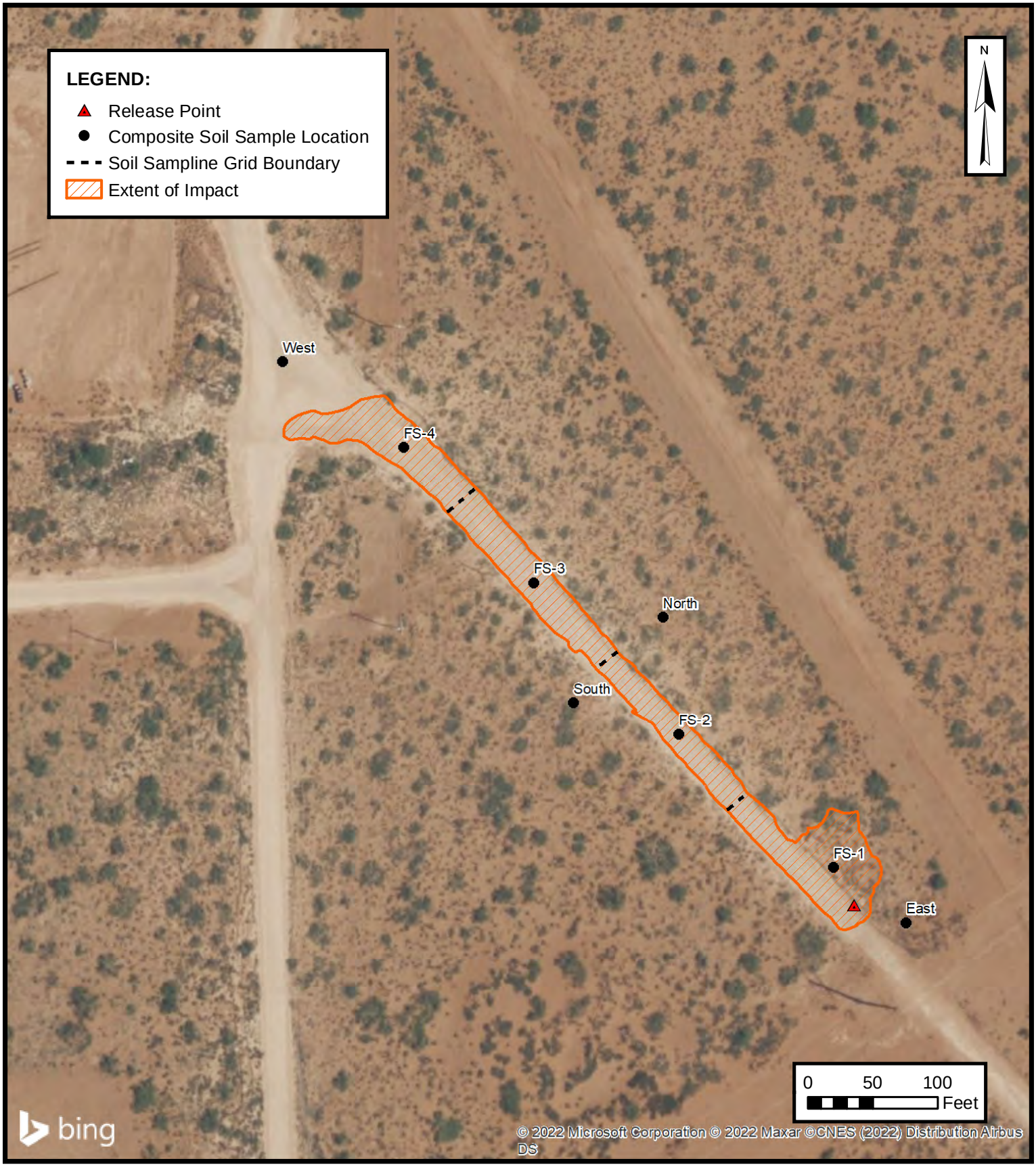
SITE VICINITY MAP

OXY USA INC.
SUNDANCE SDS 11-1 SWD
Eddy County, New Mexico
32.228333° N, 103.731944° W

PROJECT NUMBER: 03B1417061

FIGURE
2



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Environmental, Engineering and Hydrogeologic Consultants

SITE MAP

OXY USA INC.
SUNDANCE SDS 11-1 SWD
Eddy County, New Mexico
32.228333° N, 103.731944° W

PROJECT NUMBER: 03B1417061

FIGURE
3

ENSOLUM

ATTACHMENT B

Supporting Documentation

Beaux Jennings

From: Morgan, Crisha A <camorgan@blm.gov>
Sent: Thursday, September 1, 2022 12:58 PM
To: Dittrich, John W; OCD.enviro@state.nm.us; CFO_Spill, BLM_NM
Cc: Beaux Jennings; Pierce, Tyson (Legacy Safety & Consulting LLC)
Subject: Re: [EXTERNAL] Initial Notification-Sundance SDS 11-1 SWD
Attachments: Seed_Mixture_2 LPC.doc

[**EXTERNAL EMAIL**]
All,

My Environmental Impact Review is as follows:
BLM surface/minerals
No Cave/Karst restrictions
No archaeology survey will be required as this release falls within a pre-existing surveyed space.
This release does fall within Lesser Prairie Chicken Habitat, so timing restrictions will apply.
This location will require BLM seed mixture 2 for LPC. I have attached a copy of the seed mixture for your records.

Please consider this BLM's approval to move forward with deliniation and remediation of this site. Please let us know if you run into any issues or if you have any further questions or concerns.

Thank you,

Crisha A. Morgan |Certified - Environmental Protection Specialist | Program Officer|COR| Spills Coordinator| Orphaned Well POC Lead
Bureau of Land Management | Carlsbad Field Office
620 E. Greene Street Carlsbad, NM 88220
Cell 575-200-8648 | Office 575-234-5987 |camorgan@blm.gov

From: Dittrich, John W <Wade_Dittrich@oxy.com>
Sent: Wednesday, August 31, 2022 11:35 AM
To: OCD.enviro@state.nm.us <OCD.enviro@state.nm.us>; CFO_Spill, BLM_NM <BLM_NM_CFO_Spill@blm.gov>
Cc: Beaux Jennings <bjennings@ensolum.com>; Pierce, Tyson (Legacy Safety & Consulting LLC) <Tyson_Pierce@oxy.com>; Morgan, Crisha A <camorgan@blm.gov>
Subject: [EXTERNAL] Initial Notification-Sundance SDS 11-1 SWD

All,
This is to inform you that Oxy Permian had a **Reportable** release in **Eddy County** at the **Sundance-SDS 11-1 SWD/BAT** on 8/30/2022.

- **Release Location**: Legal -11-24S-31E-
- **Release Volume**: 0 bbls of Oil and 50 bbls of Produced Water.
- **Recovered**: 0 bbls of Oil recovered and 0 bbls of PW recovered
- **Cause of Release**: 4 in Poly Line failure
- **Approximate Area impacted by release**: TBD-**Leak is in the pasture** (measurements are subject to change with GPS tracking)
- **GPS Coordinates of Leak and Driving Directions: 32.241389**, **-103.722500-** Int. of Hwy 128 and Buck Jackson Rd, go West on Hwy 128 for 2 miles, leak is on the Right(S) in pasture.
- Please let me know if you have any questions.

Wade Dittrich
Environmental Specialist
Oxy Permian-Resources and EOR-New Mexico/Colorado
575-390-2828 cell
Wade_Dittrich@Oxy.com

OSE POD Locations Map

10/19/2022, 2:52:09 PM

default
default

GIS WATERS PODs
Pending
OSE District Boundary

Water Right Regulations
Closure Area
SiteBoundaries

1:9,028

0 0.07 0.15 0.3 mi

0 0.15 0.3 0.6 km

Web Generated Map
Map is generated by web users.

U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetlands Mapper

October 19, 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.

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Sundance SDS 11-1 SWD

Write a description for your map.

National Flood Hazard Layer FIRMette

FEMA

103°44'14"W 32°13'57"N

103°43'36"W 32°13'27"N

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

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

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
  - 17.5 Water Surface Elevation
  - Coastal Transect
  - 513 Base Flood Elevation Line (BFE)
  - Limit of Study
  - Jurisdiction Boundary
  - Coastal Transect Baseline
  - Profile Baseline
  - Hydrographic Feature
- **MAP PANELS**
  - Digital Data Available
  - No Digital Data Available
  - Unmapped

N

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

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

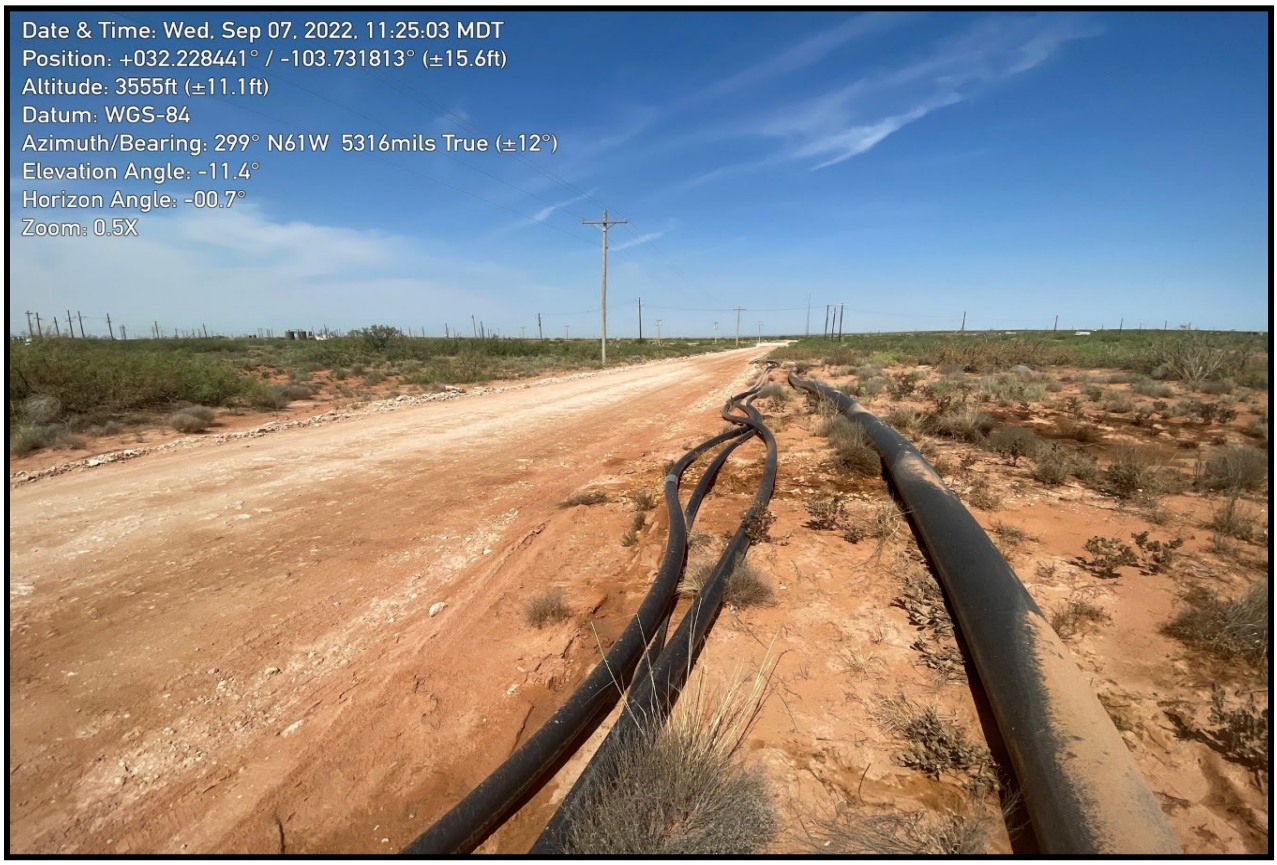
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/19/2022 at 4:26 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by 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.

ENSOLUM

ATTACHMENT C

Photographic Documentation



View of release point during intitial soil sampling activities, facing northwest.

View of release area during initial soil sampling activities, facing southeast.

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ATTACHMENT D

Table 1 – Soil Sample Analytical Results

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Sundance SDS 11-1 SWD
Oxy USA Inc.
Eddy County, New Mexico
Ensolum Project No. 03B1417061

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			**10**	**NE**	**NE**	**NE**	**50**	**NE**	**NE**	**NE**	**100**	**600**
Composite Soil Sample Analytical Results												
FS-1	9/27/2022	1 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**33.4**	**11.0**	**44.4**	**64.0**
FS-2	9/27/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**19.4**	<10.0	**19.4**	**7,760**
FS-3	9/27/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**4,640**
FS-4	9/27/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**20,000**
Delineation Sample Analytical Results												
North	9/27/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**128**
East	9/27/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**64.0**
South	9/27/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**32.0**
West	9/27/2022	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	**16.0**

*Concentrations in **bold** and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)*

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

ENSOLUM

ATTACHMENT E

Laboratory Report & Chain-of-Custody Documentation

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 30, 2022

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SUNDANCE SDS 11-1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 09/27/22 13:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/30/2022	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD	Sampling Condition:	Cool & Intact
Project Number:	03B1417061	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 1 1-2' (H224480-01)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.08	104	2.00	4.40	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	2.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.89	94.4	2.00	2.74	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.84	97.3	6.00	2.29	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	09/28/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	199	99.7	200	0.554	
DRO >C10-C28*	**33.4**	10.0	09/28/2022	ND	206	103	200	2.09	
EXT DRO >C28-C36	**11.0**	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane *90.7 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *97.3 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/30/2022	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD	Sampling Condition:	Cool & Intact
Project Number:	03B1417061	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 2 0-.25' (H224480-02)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.08	104	2.00	4.40	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	2.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.89	94.4	2.00	2.74	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.84	97.3	6.00	2.29	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**7760**	16.0	09/28/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	199	99.7	200	0.554	
DRO >C10-C28*	**19.4**	10.0	09/28/2022	ND	206	103	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane *84.9 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *91.2 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/30/2022	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD	Sampling Condition:	Cool & Intact
Project Number:	03B1417061	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 3 0-.25' (H224480-03)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.08	104	2.00	4.40	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	2.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.89	94.4	2.00	2.74	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.84	97.3	6.00	2.29	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.2 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4640**	16.0	09/28/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	199	99.7	200	0.554	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	206	103	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane *82.6 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *88.1 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/30/2022	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD	Sampling Condition:	Cool & Intact
Project Number:	03B1417061	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: FS - 4 0-.25' (H224480-04)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.08	104	2.00	4.40	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	2.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.89	94.4	2.00	2.74	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.84	97.3	6.00	2.29	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**20000**	16.0	09/28/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	199	99.7	200	0.554	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	206	103	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane *86.0 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *91.6 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/30/2022	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD	Sampling Condition:	Cool & Intact
Project Number:	03B1417061	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: NORTH 0-.25' (H224480-05)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.08	104	2.00	4.40	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	2.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.89	94.4	2.00	2.74	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.84	97.3	6.00	2.29	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	09/28/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	199	99.7	200	0.554	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	206	103	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane *88.6 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *93.9 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/30/2022	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD	Sampling Condition:	Cool & Intact
Project Number:	03B1417061	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: EAST 0-.25' (H224480-06)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.08	104	2.00	4.40	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	2.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.89	94.4	2.00	2.74	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.84	97.3	6.00	2.29	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	09/28/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	199	99.7	200	0.554	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	206	103	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane *83.4 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *88.2 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/30/2022	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD	Sampling Condition:	Cool & Intact
Project Number:	03B1417061	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: WEST 0-.25' (H224480-07)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.08	104	2.00	4.40	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	2.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.89	94.4	2.00	2.74	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.84	97.3	6.00	2.29	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	09/28/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	199	99.7	200	0.554	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	206	103	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane *82.5 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *86.6 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	09/27/2022	Sampling Date:	09/27/2022
Reported:	09/30/2022	Sampling Type:	Soil
Project Name:	SUNDANCE SDS 11-1 SWD	Sampling Condition:	Cool & Intact
Project Number:	03B1417061	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY CO., NM		

Sample ID: SOUTH 0-.25' (H224480-08)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/29/2022	ND	2.08	104	2.00	4.40	
Toluene*	<0.050	0.050	09/29/2022	ND	2.01	100	2.00	2.94	
Ethylbenzene*	<0.050	0.050	09/29/2022	ND	1.89	94.4	2.00	2.74	
Total Xylenes*	<0.150	0.150	09/29/2022	ND	5.84	97.3	6.00	2.29	
Total BTEX	<0.300	0.300	09/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.9-140*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	09/28/2022	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2022	ND	199	99.7	200	0.554	
DRO >C10-C28*	<10.0	10.0	09/28/2022	ND	206	103	200	2.09	
EXT DRO >C28-C36	<10.0	10.0	09/28/2022	ND					

Surrogate: 1-Chlorooctane *85.3 %* *45.3-161*

Surrogate: 1-Chlorooctadecane *88.6 %* *46.3-178*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Ensolum, LLC
Project Manager:	Beaux Jennings
Address:	601 N. Marienfeld St. STE 400
City:	Midland State: TX Zip: 79701
Phone #:	432 230 3344 Fax #:
Project #:	03B1417061 Project Owner: Oxy
Project Name:	Sundance SDS 11-1 SWD
Project Location:	Eddy Co NM
Sampler Name:	Shane D. Iler

BILL TO

P.O. #:	
Company:	Oxy USA, Inc.
Attn:	Wade Dittrich
Address:	
City:	
State:	Zip:
Phone #:	575-390-2828
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH 8015m	BTEX 8021B	Chlorides 4500									
H224480																											
1	FS-1	1-2'	C	1			X					X		9-27-22	1227	X	X	X									
2	FS-2	0-.25	C	1			X					X		9-27-22	1245	X	X	X									
3	FS-3	0-.25	C	1			X					X		9-27-22	1248	X	X	X									
4	FS-4	0-.25	C	1			X					X		9-27-22	1250	X	X	X									
5	North	0-.25	C	1			X					X		9-27-22	1255	X	X	X									
6	East	0-.25	C	1			X					X		9-27-22	1257	X	X	X									
7	West	0-.25	C	1			X					X		9-27-22	~~1300~~	X	X	X									
8	South	0-.25	C	1			X					X		9-27-22	~~1300~~ 1302	X	X	X									
	NTR	9-27-22																									

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 9-27-22	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1321		All Results are emailed. Please provide Email address: BJennings@ensolum.com
Relinquished By:	Date:	Received By:	REMARKS: Sample Time for South = 1300 West = 1302
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other:

Observed Temp. °C 4.6° Corrected Temp. °C 4.0°

Sample Condition: Cool ☐ Yes ☐ No Intact ☑ Yes ☐ No

CHECKED BY: (Initials) SR

Turnaround Time: Standard ☒ Rush ☐

Thermometer ID #113 Correction Factor -0.5°C -0.6°c

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

FORM-006 R 3.2 10/07/21

QEC Quality Environmental Containers 800-255-3950 • www.qecusa.com

CUSTODY SEAL DATE 9-27-22 SIGNATURE

ENSOLUM

ATTACHMENT F

C-141 Documentation

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	nAPP2224356841
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Oxy USA Inc.	OGRID: 16696
Contact Name: Tyson Pierce	Contact Telephone: 575-390-3610
Contact email: Tyson_Pierce@oxy.com	Incident # nAPP2224356841
Contact mailing address: PO Box 4294, Houston, TX 77210	

Location of Release Source

Latitude 32.228333 Longitude -103.731944
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Sundance-SDS 11-1 SWD	Site Type: Oil/Produced Water Gathering Line
Date Release Discovered: 8/30/2022	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
K	11	24S	31E	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)

☐ Crude Oil	Volume Released (bbls):	Volume Recovered (bbls):
☒ Produced Water	Volume Released (bbls): 50	Volume Recovered (bbls): 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: 4-inch poly line failure.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2224356841
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Release is greater than 25 barrels.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Yes, by Wade Dittrich of Oxy via email to OCD.enviro@state.nm.us and BLM_NM_CFO_Spill@blm.gov on 8/31/2022 at 1235.

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.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Tyson Pierce Title: Environmental Specialist

Signature: _____ Date: 9-8-22

email: Tyson_Pierce@oxy.com Telephone: 575-390-3610

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2224356841
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

☒ 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 9.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2224356841
District RP	
Facility ID	
Application ID	

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

Printed Name: Tyson Pierce Title: Environmental Specialist

Signature: _____ Date: 11/11/2022

email: Tyson_Pierce@oxy.com Telephone: 575-390-3610

OCD Only

Received by: Jocelyn Harimon Date: 11/14/2022

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2224356841
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Tyson Pierce Title: Environmental Specialist

Signature: _____ Date: 11/11/2022

email: Tyson_Pierce@oxy.com Telephone: 575-390-3610

OCD Only

Received by: Jocelyn Harimon Date: 11/14/2022

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Jennifer Nobui Date: 12/09/2022

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 158071

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 158071
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Samples must be analyzed for the constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Sidewall/Floor samples should represent no more than 400 ft2. Please note the lat/long are incorrect in the C141 submittal and needs to be corrected with closure report submission.	12/9/2022