

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	nAPP2217848858
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OXY USA INC.	OGRID	16696
Contact Name	WADE DITTRICH	Contact Telephone	(575) 390-2828
Contact email	WADE_DITTRICH@OXY.COM	Incident # (assigned by OCD)	
Contact mailing address	PO BOX 4294; HOUSTON, TX 77210		

Location of Release Source

Latitude N 32.21428 Longitude W 103.66918
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	MESA VERDDE	Site Type	WATER POLISHING FACILITY
Date Release Discovered	6/3/2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County
L	15	24S	32E	LEA COUNTY, NM

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 type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 100 bbls	Volume Recovered (bbls) 75 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input 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

12" STEEL PW LINE CORRODED

Form C-141

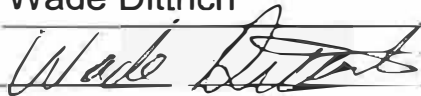
State of New Mexico
Oil Conservation Division

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Incident ID	nAPP2217848858
District RP	
Facility ID	
Application ID	

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? Release was over 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? yes, by email to OCD email address by Wade Dittrich on June 6, 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 type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input 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>Wade Dittrich</u>	Title: <u>Environmental Coordinator</u>
Signature: <u></u>	Date: <u>6-28-22</u>
email: <u>wade_dittrich@oxy.com</u>	Telephone: <u>(575) 390-2828</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>06/28/2022</u>

Location of spill: Mesa Verde Water Polishing Facility

Date of Spill: 6/3/2022

Site Soil Type: Fine Sand

Average Daily Production: BBL Oil BBL Water

Total Area Calculations						
Total Surface Area	width		length		wet soil depth	oil (%)
Rectangle Area #1	60 ft	X	355 ft	X	1 in	0%
Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

Porosity 0.16 gal per gal

Saturated Soil Volume Calculations:H2OOIL

Area #1	21300 sq. ft.	888 cu. ft.	cu. ft.
Area #2	0 sq. ft.	cu. ft.	cu. ft.
Area #3	0 sq. ft.	cu. ft.	cu. ft.
Area #4	0 sq. ft.	cu. ft.	cu. ft.
Area #5	0 sq. ft.	cu. ft.	cu. ft.
Area #6	0 sq. ft.	cu. ft.	cu. ft.
Area #7	0 sq. ft.	cu. ft.	cu. ft.
Area #8	0 sq. ft.	cu. ft.	cu. ft.
Total Solid/Liquid Volume:	21,300 sq. ft.	888 cu. ft.	cu. ft.

Estimated Volumes SpilledH2OOIL

Liquid in Soil:	25.3 BBL	0.0 BBL
Liquid Recovered :	75.0 BBL	0.0 BBL
Spill Liquid	100.3 BBL	0.0 BBL
Total Spill Liquid:	100.3	

Recovered Volumes

Estimated oil recovered: 0.0 BBL
 Estimated water recovered: 75.0 BBL

Soil Type	Porosity
Clay	0.15
Peat	0.40
Glacial Sediments	0.13
Sandy Clay	0.12
Silt	0.16
Loess	0.25
Fine Sand	0.16
Medium Sand	0.25
Coarse Sand	0.26
Gravelly Sand	0.26
Fine Gravel	0.26
Medium Gravel	0.25
Coarse Gravel	0.18
Sandstone	0.25
Siltstone	0.18
Shale	0.05
Limestone	0.13
Basalt	0.19
Volcanic Tuff	0.20
Standing Liquids	



December 30, 2024

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

Re: Remediation Work Plan
Mesa Verde WPF
32.21428° N, 103.66918° W
Lea County, New Mexico
Incident ID: nAPP2217848858
Ensolum Project No. 03B1417194

Dear Mr. Dittrich:

Ensolum, LLC. (Ensolum) has prepared this Remediation Work Plan to perform environmental consulting services in the vicinity of the Mesa Verde WPF, referred to hereinafter as the "Site." The Site is located off HWY 128 and Orla Road, approximately 31 miles west of Jal in Lea County, New Mexico.

I. SITE DESCRIPTION & BACKGROUND

Operator:	Oxy USA Inc. (Oxy)
Site Name:	Mesa Verde WPF
Location:	32.21428° N, 103.66918° W Lea County, New Mexico
Property:	Private & 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 L, Section 15, Township 24 South, Range 32 East, in Lea County, New Mexico (32.21428°, -103.66918°) and is associated with oil and gas exploration and production operations on private land as well as Federal Land managed by the Bureau of Land Management (BLM).

On June 3, 2022, approximately 100 barrels (bbls) of produced water onto the well pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 75 bbls of produced water were recovered. The cause of the release was due to a corroded produced water line. Oxy reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on June 28, 2022. The release was assigned Incident Number nAPP2217848858.

Between November 22, 2024 and December 19, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. A total of 16 delineation soil samples (DS01 through DS07 and PH01 through PH05) were collected from 12 locations at depths ranging from 0.5 feet to 4 feet bgs within and surrounding the release area. Bedrock was encountered in the release extent at 2 delineation soil sample locations (PH01 and PH02). Refusal depths ranged from 2.5 feet to 3.5 feet bgs. Impacted soil was delineated to the depth of the shallow bedrock where refusal was encountered with the backhoe.

Based on laboratory analytical results, additional investigation/remediation is needed at the Site.

Based on the location of a soil boring (SB-1) within 0.5 miles of the Site, the New Mexico Administrative Code (NMAC) 19.15.29 *Releases* Table I: Closure Criteria for Soils Impacted by a Release (> 100 feet) values were utilized. The delineation soil sample results are included as **Table 1** in **Attachment D**.

The Site Map indicating the overall area of the release, the composite floor soil sample locations are included as **Figure 3** in **Attachment A**. The Closure Criteria Map is included as **Figure 4** 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 an area of flood hazard.

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
>100 feet	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	TPH (GRO+DRO)	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH will be applied to the top 4 feet of soil in the pasture area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be immediately reclaimed following remediation.

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 HSP, 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. Excavation 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.

An estimated 667 cubic yards (cy) will be excavated from the release area. The impacted soil will be transported and properly disposed of at the Lealand Landfill in Carlsbad, New Mexico.

The remediation will be completed within 90 days of approval from the NMOCD.



Mr. Wade Dittrich
Remediation Work Plan
Mesa Verde WPF

December 30, 2024
Page 4

C. Confirmation Composite Soil Sampling Program

Once excavation activities are complete, Ensolum will collect additional confirmation composite soil samples every 200 square-feet from the bottomhole of the release area based on the following criteria:

- Prior composite floor soil sample exceedance;
- Highest photoionization detector (PID) reading;
- Highest electrical conductivity reading; or
- Change in lithology.

D. Laboratory Analytical Program

The soil samples collected from the proposed confirmation floor soil samples will be analyzed for total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO) and motor oil range organics (MRO) utilizing Environmental Protection Agency (EPA) SW-846 Method 8015M and chloride utilizing EPA SW-846 Method SM4500 Cl-B under the NMOCD Closure Criteria for Soils Impacted by a Release (>100 feet).

IV. REPORTING

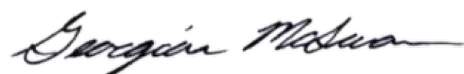
Subsequent to the completion of Site activities, a Closure Report will be prepared by Ensolum to document completed site investigation and remediation activities as well as any corrective action at the Site, if needed.

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



Georgiana McSwane
Project Manager
gmcswane@ensolum.com



Beaux Jennings
Associate Principal
bjennings@ensolum.com

Attachments:

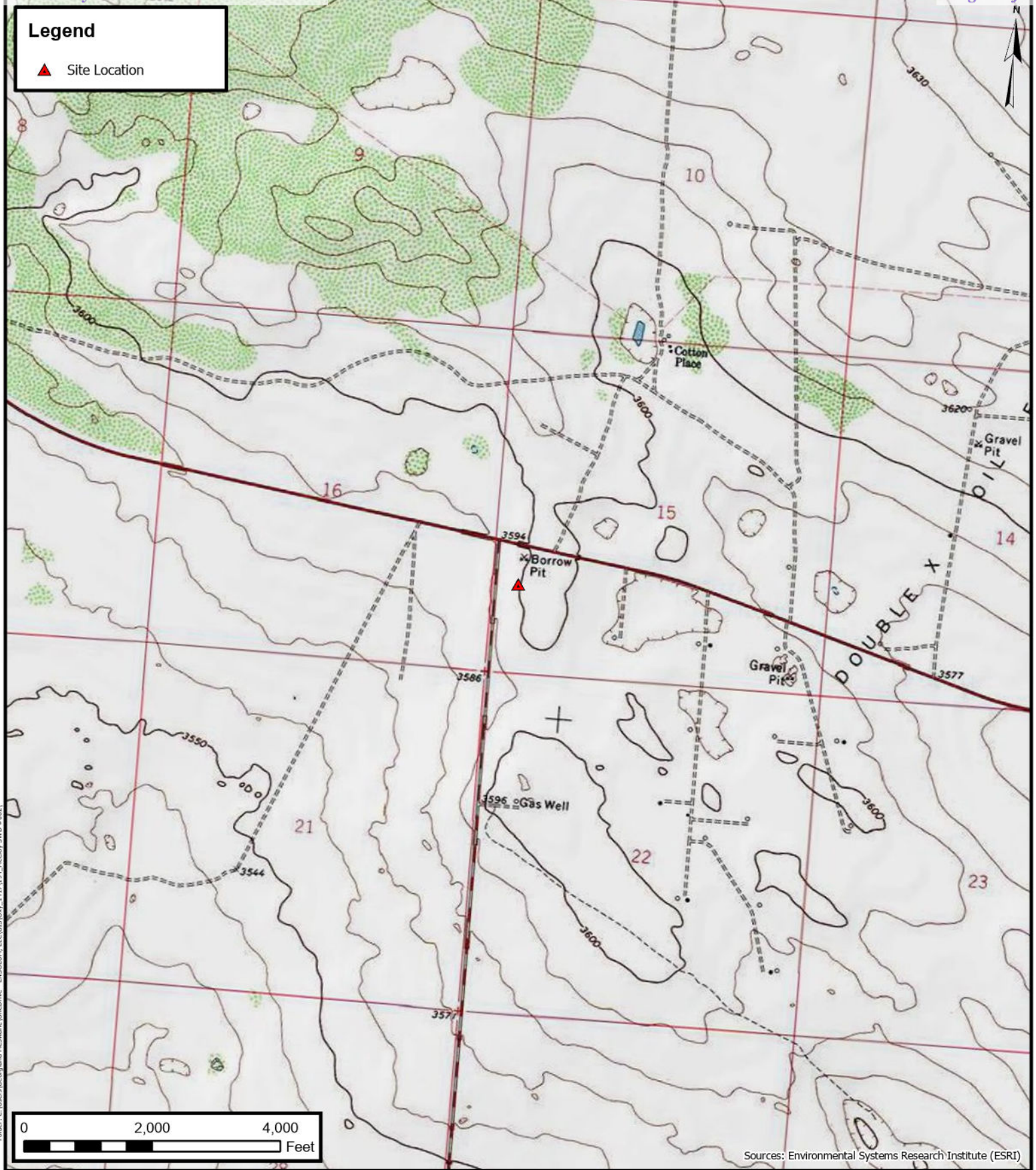
- Attachment A – Figures
- Attachment B – Supporting Documentation
- Attachment C – Photographic Documentation
- Attachment D – Table 1 – Soil Sample Analytical Results
- Attachment E – Laboratory Report & Chain-of-Custody Documentation
- Attachment F – C-141





ATTACHMENT A

Figures



Topographic Map

Oxy USA Inc.
Mesa Verde WPF
32.21428° N, 103.66918° W
Lea County, New Mexico

PROJECT NUMBER: 03B1417194

FIGURE

1



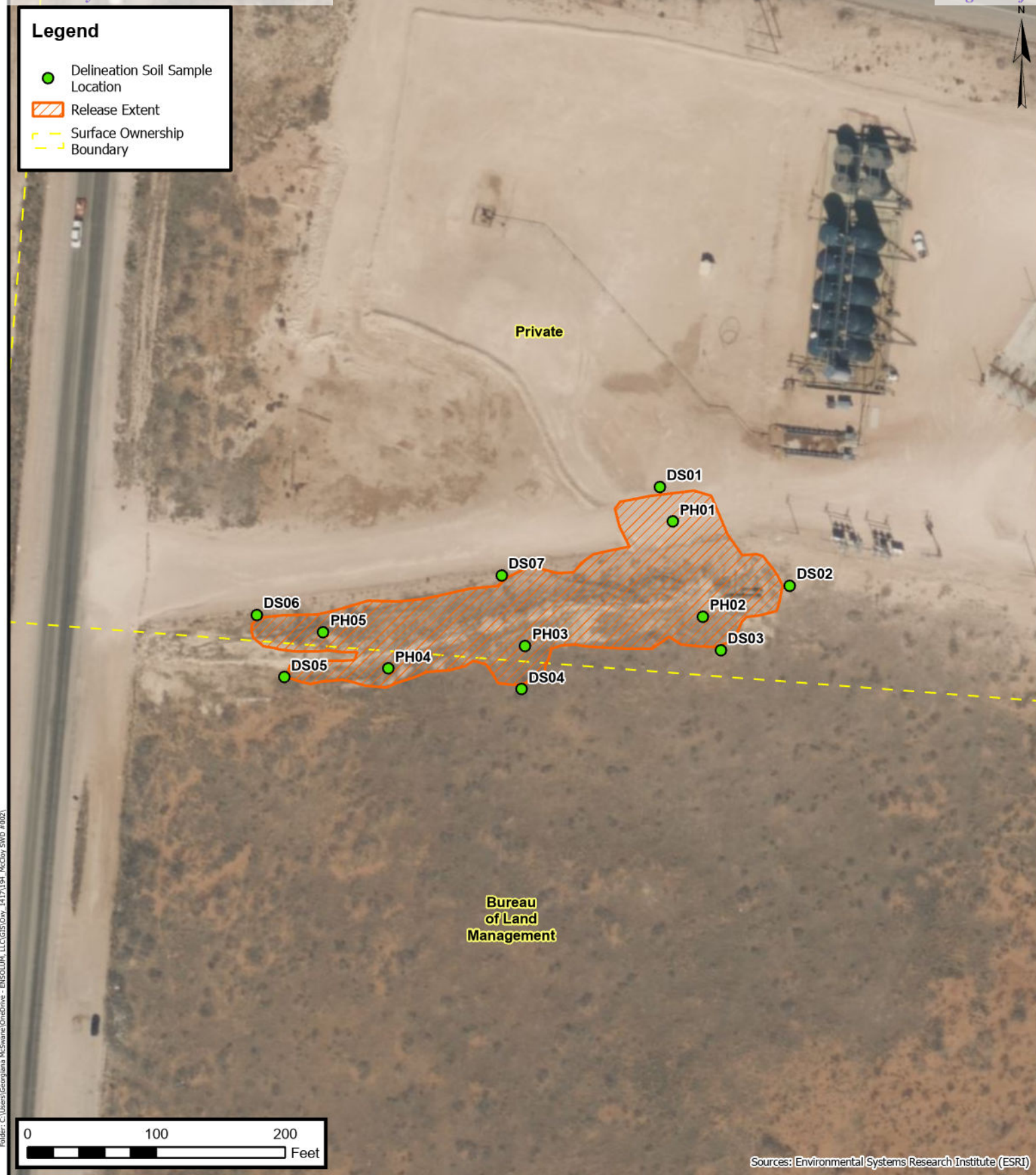
Site Vicinity Map

Oxy USA Inc.
Mesa Verde WPF
32.21428° N, 103.66918° W
Lea County, New Mexico

PROJECT NUMBER: 03B1417194

FIGURE

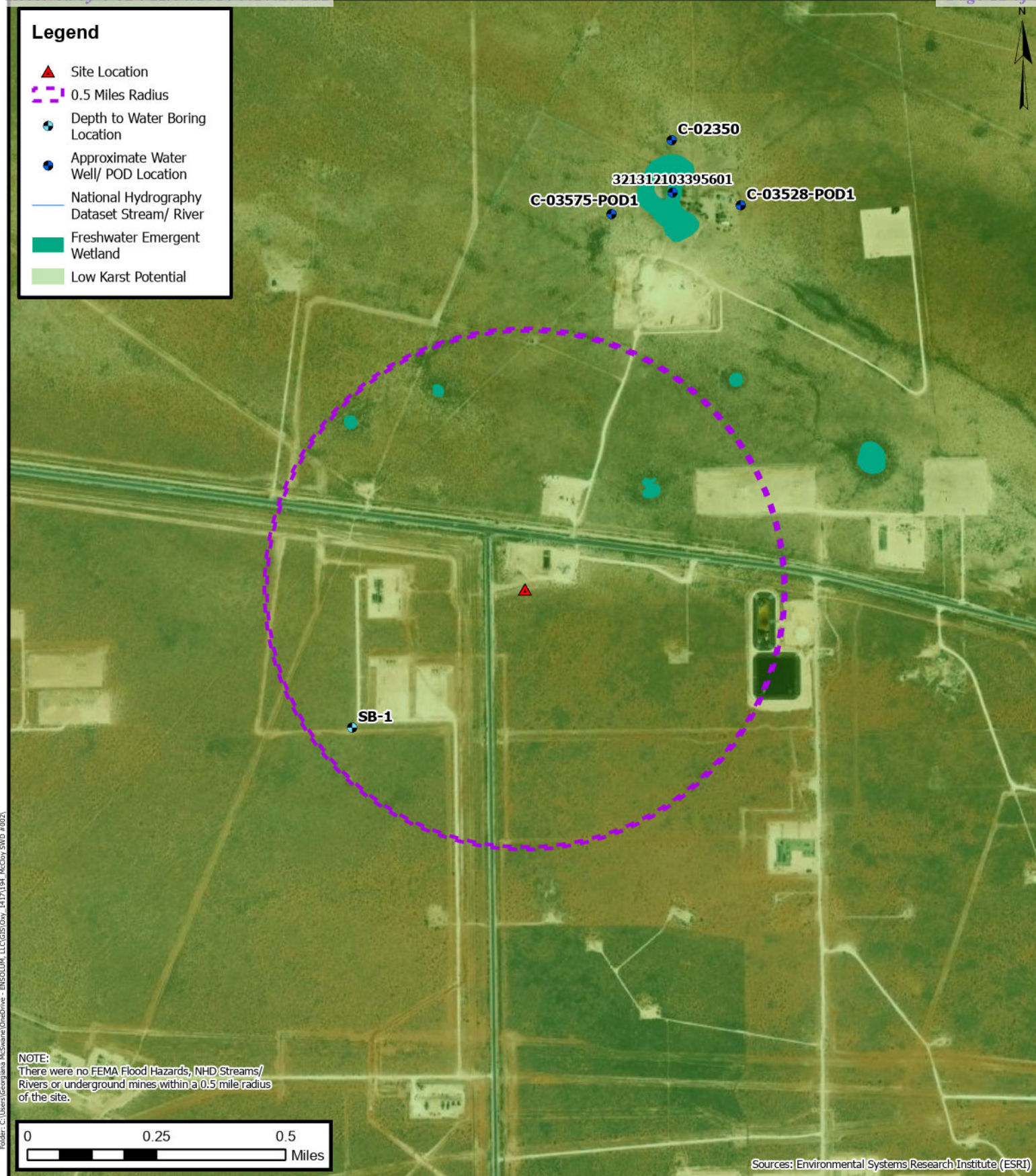
2



ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

Site Map
Oxy USA Inc.
Mesa Verde WPF
32.21428° N, 103.66918° W
Lea County, New Mexico
PROJECT NUMBER: 03B1417194

FIGURE
3



Closure Criteria Map

Oxy USA Inc.
Mesa Verde WPF
32.21428° N, 103.66918° W
Lea County, New Mexico

PROJECT NUMBER: 03B1417194

FIGURE

4



ATTACHMENT B

Supporting Documentation



GROUNDWATER LOG SB-1

ENSOLUM













PROJECT NUMBER 03B1417169	DRILLING DATE 11/19/2024	COORDINATES 32.288270, -103.785346
PROJECT NAME Pure Gold A Federal 005	TOTAL DEPTH 110'	COORD SYS
CLIENT Oxy USA, Inc.	DIAMETER 2"	COMPLETION
ADDRESS	CASING PVC	SURFACE ELEVATION 3358'
LICENCE NO.	SCREEN	WELL TOC

COMMENTS Drilled by Caleb Gregory, West Texas Water Well	LOGGED BY Shimada Kaoru
	CHECKED BY

PID	Samples	Analysed	% Recovery	Depth (ft)	Graphic Log	Moisture	Material Description	Well Diagram	Elevation (ft)
				2			Brown sandy clay, dry, very fine-grained to fine-grained, trace gravel		3356
				4					3354
				6					3352
				8					3350
				10					3348
				12					3346
				14					3344
				16					3342
				18					3340
				20			Pale light brown caliche, small gravel		3338
				22					3336
				24					3334

GROUNDWATER LOG SB-1

ENSOLUM

PID	Samples	Analysed	% Recovery	Depth (ft)	Graphic Log	Moisture	Material Description	Well Diagram	Elevation (ft)
				26					3332
				28					3330
				30			Brown clay, dry, no gravel, very fine-grained to fine-grained, oxidites		3328
				32					3326
				34					3324
				36					3322
				38					3320
				40			Reddish-brown, clayey-sand, fine to coarse, dry, non-cemented, non-plastic, some gravel		3318
				42					3316
				44					3314
				46					3312
				48					3310
				50			Brownish-red, sandy clay, dry, non-plastic, non-cemented, no gravel, oxidized		3308
				52					3306
				54					3304

Disclaimer This bore log is intended for environmental not geotechnical purposes.

Page 2 of 4

GROUNDWATER LOG SB-1

ENSOLUM

PID	Samples	Analysed	% Recovery	Depth (ft)	Graphic Log	Moisture	Material Description	Well Diagram	Elevation (ft)
				56					3302
				58					3300
				60			Reddish-brown sandy clay, non-cemented, non-plastic, very fine to fine-grained		3298
				62					3296
				64					3294
				66					3292
				68					3290
				70			Same as above, darker in color		3288
				72					3286
				74					3284
				76					3282
				78					3280
				80					3278
				82					3276
				84					3274

Disclaimer This bore log is intended for environmental not geotechnical purposes.

Page 3 of 4

GROUNDWATER LOG SB-1

ENSOLUM

PID	Samples	Analysed	% Recovery	Depth (ft)	Graphic Log	Moisture	Material Description	Well Diagram	Elevation (ft)
				86					3272
				88					3270
				90			Reddish-brown, dry, sandy clay, non-cemented, non-plastic, very fine-grained to fine-grained, no gravel		3268
				92					3266
				94					3264
				96					3262
				98					3260
				100					3258
				102					3256
				104					3254
				106					3252
				108					3250
				110			Reddish brown silty clay, dry, non-cemented, non-plastic, very fine to coarse, no gravel		3248
				112					3246
				114					3244

Disclaimer This bore log is intended for environmental not geotechnical purposes.

Page 4 of 4



ATTACHMENT C

Photographic Documentation

**Photographic Log**

Oxy USA Inc.

Mesa Verde WPF

03B1417194

Date & Time: Fri, Nov 22, 2024 at 12:59:22 MST
 Position: +032 213888° / -103.670461° (±7.4ft)
 Altitude: 3593ft (±9.8ft)
 Datum: WGS-84
 Azimuth/Bearing: 099° S91E 1760mils True (±11°)
 Elevation Angle: -11.8°
 Horizon Angle: -00.6°
 Zoom: 0.5X
 Mesa Verde WPF



Photograph: 1 Date: 11/22/2024
 Description: Release extent from West
 View: East

Date & Time: Fri, Nov 22, 2024 at 12:59:56 MST
 Position: +032 213827° / -103.670278° (±15.6ft)
 Altitude: 3596ft (±14.3ft)
 Datum: WGS-84
 Azimuth/Bearing: 043° N43E 0764mils True (±11°)
 Elevation Angle: -06.0°
 Horizon Angle: -00.4°
 Zoom: 0.5X
 Mesa Verde WPF



Photograph: 2 Date: 11/22/2024
 Description: Release extent from Southwest
 View: Northeast

Date & Time: Fri, Nov 22, 2024 at 13:02:08 MST
 Position: +032 214050° / -103.669034° (±16.7ft)
 Altitude: 3606ft (±9.8ft)
 Datum: WGS-84
 Azimuth/Bearing: 293° N47W 5209mils True (±11°)
 Elevation Angle: -06.3°
 Horizon Angle: -00.7°
 Zoom: 0.5X
 Mesa Verde WPF



Photograph: 3 Date: 11/22/2024
 Description: Release extent and risers from Southeast
 View: Northwest

Date & Time: Fri, Nov 22, 2024 at 13:02:19 MST
 Position: +032 214107° / -103.669027° (±7.8ft)
 Altitude: 3606ft (±9.8ft)
 Datum: WGS-84
 Azimuth/Bearing: 290° N50W 4978mils True (±11°)
 Elevation Angle: -07.9°
 Horizon Angle: -00.2°
 Zoom: 0.5X
 Mesa Verde WPF



Photograph: 4 Date: 11/22/2024
 Description: Release extent and risers from East
 View: West

**Photographic Log**

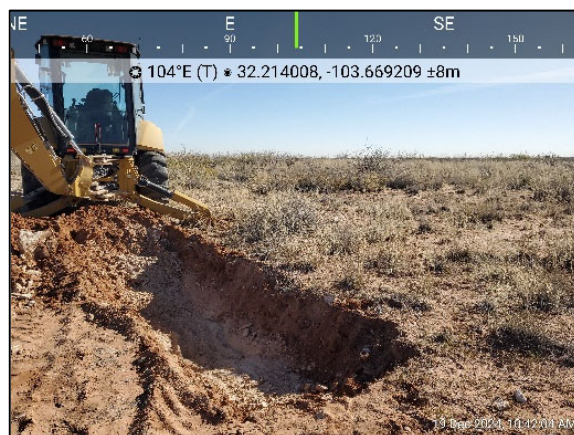
Oxy USA Inc.
Mesa Verde WPF
03B1417194



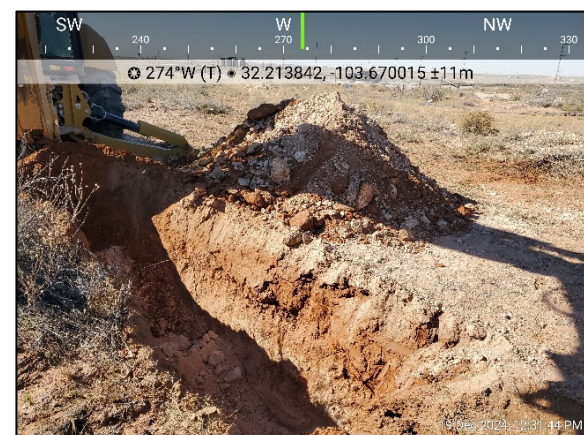
Photograph: 5 Date: 12/19/2024
Description: Hydrovac spotting an Oxy line
View: East



Photograph: 6 Date: 12/19/2024
Description: PH01 Pothole Location
View: West



Photograph: 7 Date: 11/22/2024
Description: PH02 Pothole Investigation
View: East



Photograph: 8 Date: 12/19/2024
Description: PH04 Pothole Investigation
View: West

**Photographic Log**

Oxy USA Inc.
Mesa Verde WPF
03B1417194



Photograph: 9 Date: 12/19/2024
Description: PH03 Pothole Investigation
View: West



Photograph: 10 Date: 12/19/2024
Description: PH05 Pothole Investigation
View: South



ATTACHMENT D

Table 1 – Soil Sample Analytical Results



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Mesa Verde WPF
Oxy USA Inc.
Lea County, New Mexico
Ensolum Project No. 03B1417194

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 C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₉ -C ₃₅ (mg/kg)	TPH Total (GRO+DRO) C ₆ -C ₂₈ (mg/kg)	TPH Total (GRO+DRO+MRO) C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	NE	100	600
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Sample Analytical Results													
DS01	11/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
DS02	11/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS03	11/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS04	11/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS05	11/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS06	11/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS07	11/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
PH01	12/19/2024	3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,360
PH02	12/19/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,600
	12/19/2024	2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,760
PH03	12/19/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
	12/19/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,840
	12/19/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,920
PH04	12/19/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
	12/19/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,160
PH05	12/19/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,260
	12/19/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,440

Concentrations in bold and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release

bgs: below ground surface
mg/kg: milligrams per kilogram
NE: Not Established
mg/kg: milligrams per kilogram
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



ATTACHMENT E

Laboratory Report & Chain-of-Custody Documentation



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

November 27, 2024

GEORGIANA MCSWANE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 11/22/24 14:19.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 accredited 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,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 11/22/2024
 Reported: 11/27/2024
 Project Name: MESA VERDE WPF
 Project Number: 03B1417194
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS 01 0.5' (H247187-01)

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	11/26/2024	ND	2.09	105	2.00	2.46	
Toluene*	<0.050	0.050	11/26/2024	ND	2.11	106	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.04	102	2.00	1.31	
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.46	108	6.00	1.92	
Total BTEX	<0.300	0.300	11/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/26/2024	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	11/25/2024	ND	196	98.0	200	0.148	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	94.8	200	0.514	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 11/22/2024
 Reported: 11/27/2024
 Project Name: MESA VERDE WPF
 Project Number: 03B1417194
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS 02 0.5' (H247187-02)

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	11/26/2024	ND	2.09	105	2.00	2.46		
Toluene*	<0.050	0.050	11/26/2024	ND	2.11	106	2.00	1.35		
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.04	102	2.00	1.31		
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.46	108	6.00	1.92		
Total BTEX	<0.300	0.300	11/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/26/2024	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	11/26/2024	ND	196	98.0	200	0.148	
DRO >C10-C28*	<10.0	10.0	11/26/2024	ND	190	94.8	200	0.514	
EXT DRO >C28-C36	<10.0	10.0	11/26/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 11/22/2024
 Reported: 11/27/2024
 Project Name: MESA VERDE WPF
 Project Number: 03B1417194
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS 03 0.5' (H247187-03)

BTX 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	11/26/2024	ND	2.09	105	2.00	2.46		
Toluene*	<0.050	0.050	11/26/2024	ND	2.11	106	2.00	1.35		
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.04	102	2.00	1.31		
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.46	108	6.00	1.92		
Total BTX	<0.300	0.300	11/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/26/2024	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	11/25/2024	ND	196	98.0	200	0.148	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	94.8	200	0.514	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 11/22/2024
 Reported: 11/27/2024
 Project Name: MESA VERDE WPF
 Project Number: 03B1417194
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS 04 0.5' (H247187-04)

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	11/26/2024	ND	2.09	105	2.00	2.46		
Toluene*	<0.050	0.050	11/26/2024	ND	2.11	106	2.00	1.35		
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.04	102	2.00	1.31		
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.46	108	6.00	1.92		
Total BTEX	<0.300	0.300	11/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/26/2024	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	11/25/2024	ND	196	98.0	200	0.148	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	94.8	200	0.514	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 11/22/2024
 Reported: 11/27/2024
 Project Name: MESA VERDE WPF
 Project Number: 03B1417194
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS 05 0.5' (H247187-05)

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	11/26/2024	ND	2.09	105	2.00	2.46		
Toluene*	<0.050	0.050	11/26/2024	ND	2.11	106	2.00	1.35		
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.04	102	2.00	1.31		
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.46	108	6.00	1.92		
Total BTEX	<0.300	0.300	11/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/26/2024	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	11/25/2024	ND	196	98.0	200	0.148	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	94.8	200	0.514	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 11/22/2024
 Reported: 11/27/2024
 Project Name: MESA VERDE WPF
 Project Number: 03B1417194
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS 06 0.5' (H247187-06)

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	11/26/2024	ND	2.09	105	2.00	2.46		
Toluene*	<0.050	0.050	11/26/2024	ND	2.11	106	2.00	1.35		
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.04	102	2.00	1.31		
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.46	108	6.00	1.92		
Total BTEX	<0.300	0.300	11/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/26/2024	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	11/25/2024	ND	196	98.0	200	0.148	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	94.8	200	0.514	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 11/22/2024
 Reported: 11/27/2024
 Project Name: MESA VERDE WPF
 Project Number: 03B1417194
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 11/22/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: DS 07 0.5' (H247187-07)

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	11/26/2024	ND	1.99	99.5	2.00	0.766		
Toluene*	<0.050	0.050	11/26/2024	ND	2.05	102	2.00	1.50		
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.03	101	2.00	1.69		
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.02	100	6.00	1.60		
Total BTEX	<0.300	0.300	11/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/26/2024	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	11/25/2024	ND	196	98.0	200	0.148	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	94.8	200	0.514	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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: <i>Georgiana Reseune</i>					
Address: <i>601 N. Mainfield STE 400</i>					
City: <i>Midland</i> State: <i>TX</i> Zip: <i>79701</i>					
Phone #: <i>(854) 459-3338</i> Fax #: <i>-</i>					
Project #: <i>03B1417144</i> Project Owner:					
Project Name: <i>Mesa Verde WPF</i>					
Project Location: <i>Lea County, NM</i>					
Sample Name: <i>Lea Water</i>					
FOR LAB USE ONLY					
Lab I.D.		Sample I.D.		Depth (feet)	
				(G)RAB OR (C)OMP.	
				# CONTAINERS	
				GROUNDWATER	
				WASTEWATER	
				SOIL	
				OIL	
				SLUDGE	
				OTHER :	
				ACID/BASE:	
				ICE / COOL	
				OTHER :	
				DATE	
				TIME	
				BTEx 8021	
				TPH 8015	
				Chloride <i>4500</i> <i>300</i>	
				TE - 11/22/24	
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 consequential 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: <i>11-22-24</i> Time: <i>1414</i> Received By: <i>CAPALAO</i>					
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ Observed Temp. °C: <i>3.1c</i> Corrected Temp. °C: <i>2.5c</i> Sample Condition Cool Intact Yes No Bacteria (only) Sample Condition Cool Intact Yes No					
REMARKS: <i>Gmswinc@Ensolum.com , Hgreen@Ensolum.com</i>					



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

December 20, 2024

GEORGIANA MCSWANE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 12/19/24 16:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 12/19/2024
 Reported: 12/20/2024
 Project Name: MESA VERDE WPF
 Project Number: 03B1417194
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 12/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 01 3.5' (H247704-01)

BTX 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	12/19/2024	ND	1.65	82.6	2.00	10.3	
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7	
Total BTX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4360	16.0	12/20/2024	ND	432	108	400	0.00		

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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 12/19/2024
 Reported: 12/20/2024
 Project Name: MESA VERDE WPF
 Project Number: 03B1417194
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 12/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 02 2' (H247704-02)

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	12/19/2024	ND	1.65	82.6	2.00	10.3		
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2		
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1		
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7		
Total BTEX	<0.300	0.300	12/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	12/20/2024	ND	432	108	400	0.00		

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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 12/19/2024
 Reported: 12/20/2024
 Project Name: MESA VERDE WPF
 Project Number: 03B1417194
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 12/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 02 2.5' (H247704-03)

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	12/19/2024	ND	1.65	82.6	2.00	10.3	
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2760	16.0	12/20/2024	ND	432	108	400	0.00		

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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 12/19/2024
 Reported: 12/20/2024
 Project Name: MESA VERDE WPF
 Project Number: 03B1417194
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 12/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 03 1' (H247704-04)

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	12/19/2024	ND	1.65	82.6	2.00	10.3		
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2		
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1		
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7		
Total BTEX	<0.300	0.300	12/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	12/20/2024	ND	432	108	400	0.00		

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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 12/19/2024
 Reported: 12/20/2024
 Project Name: MESA VERDE WPF
 Project Number: 03B1417194
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 12/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 03 3' (H247704-05)

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	12/19/2024	ND	1.65	82.6	2.00	10.3	
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4840	16.0	12/20/2024	ND	432	108	400	0.00		

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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 12/19/2024
 Reported: 12/20/2024
 Project Name: MESA VERDE WPF
 Project Number: 03B1417194
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 12/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 03 4' (H247704-06)

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	12/19/2024	ND	1.65	82.6	2.00	10.3		
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2		
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1		
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7		
Total BTEX	<0.300	0.300	12/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2920	16.0	12/20/2024	ND	432	108	400	0.00		

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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 12/19/2024
 Reported: 12/20/2024
 Project Name: MESA VERDE WPF
 Project Number: 03B1417194
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 12/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 04 1' (H247704-07)

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	12/19/2024	ND	1.65	82.6	2.00	10.3	
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	12/20/2024	ND	432	108	400	0.00		

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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 12/19/2024
 Reported: 12/20/2024
 Project Name: MESA VERDE WPF
 Project Number: 03B1417194
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 12/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 04 4' (H247704-08)

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	12/19/2024	ND	1.65	82.6	2.00	10.3		
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2		
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1		
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7		
Total BTEx	<0.300	0.300	12/19/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5160	16.0	12/20/2024	ND	432	108	400	0.00		

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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 12/19/2024
 Reported: 12/20/2024
 Project Name: MESA VERDE WPF
 Project Number: 03B1417194
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 12/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 05 1' (H247704-09)

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	12/19/2024	ND	1.65	82.6	2.00	10.3	
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	12/20/2024	ND	432	108	400	0.00	

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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 12/19/2024
 Reported: 12/20/2024
 Project Name: MESA VERDE WPF
 Project Number: 03B1417194
 Project Location: OXY - LEA COUNTY, NM

Sampling Date: 12/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 05 4' (H247704-10)

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	12/19/2024	ND	1.65	82.6	2.00	10.3	
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	12/20/2024	ND	432	108	400	0.00		

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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 49.1-148

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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

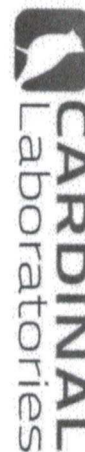
Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Samantha Mackenzie		Attn: Wade Dittich-Tyson					
Address: 601 N. Marlenfield St. STE 400		Address: Wade Dittich-Tyson					
City: Midland		City: Piccadilly					
State: TX Zip: 79701		State: TX Zip: 79701					
Phone #: 798-387-3345		Phone #: 525-300-2828					
Project #: 03131417194		Project Owner: Mesa Verde WPF					
Project Location: Mesa Verde WPF		Project Location: Mesa Verde WPF					
Sample Name: Kaoru Shimada		Sample Name: Kaoru Shimada					
FOR LAB USE ONLY		FOR LAB USE ONLY					
Lab I.D. Sample I.D.		Sample Depth (feet)					
1 PH01 3.5'		C 1					
2 PH02 2		C 1					
3 PH02 2.5		C 1					
4 PH03 1		C 1					
5 PH03 3		C 1					
6 PH03 3		C 1					
7 PH04 4		C 1					
8 PH04 4		C 1					
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Reinquished By: [Signature]		Received By: [Signature]					
Date: 12-19-24		Date: 12-19-24					
Time: 1448		Time: 1448					
Delivered By: (Circle One)		Observed Temp. °C: 6.6					
Sampler - UPS - Bus - Other:		Corrected Temp. °C: 6.0					
Sample Condition		Cool Intact					
Yes Yes		No No					
CHECKED BY: [Signature]		CHECKED BY: [Signature]					
REMARKS: 24 hours		REMARKS: 24 hours					
Turnaround Time: Standard		Turnaround Time: Standard					
Thermometer ID #115		Thermometer ID #115					
Correction Factor -0.3°C		Correction Factor -0.3°C					
Bacteria (only) Sample Condition		Cool Intact					
Yes Yes		No No					
Corrected Temp. °C		Corrected Temp. °C					



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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	nAPP2217848858
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OXY USA INC.	OGRID	16696
Contact Name	WADE DITTRICH	Contact Telephone	(575) 390-2828
Contact email	WADE_DITTRICH@OXY.COM	Incident # (assigned by OCD)	
Contact mailing address	PO BOX 4294; HOUSTON, TX 77210		

Location of Release Source

Latitude N 32.21428 Longitude W 103.66918
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	MESA VERDDE	Site Type	WATER POLISHING FACILITY
Date Release Discovered	6/3/2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County
L	15	24S	32E	LEA COUNTY, NM

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 type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 100 bbls	Volume Recovered (bbls) 75 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input 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

12" STEEL PW LINE CORRODED

Form C-141

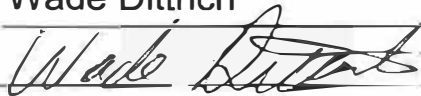
State of New Mexico
Oil Conservation Division

Page 2

Incident ID	nAPP2217848858
District RP	
Facility ID	
Application ID	

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? Release was over 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? yes, by email to OCD email address by Wade Dittrich on June 6, 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 type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input 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>Wade Dittrich</u>	Title: <u>Environmental Coordinator</u>
Signature: <u></u>	Date: <u>6-28-22</u>
email: <u>wade_dittrich@oxy.com</u>	Telephone: <u>(575) 390-2828</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>06/28/2022</u>

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 415915

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415915
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2217848858
Incident Name	NAPP2217848858 MESA VERDE WATER POLISHING FACILITY @ 30-025-42947
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-42947] MCCLOY SWD #002

Location of Release Source*Please answer all the questions in this group.*

Site Name	MESA VERDE WATER POLISHING FACILITY
Date Release Discovered	06/03/2022
Surface Owner	Private

Incident Details*Please answer all the questions in this group.*

Incident Type	Produced Water 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	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 100 BBL Recovered: 75 BBL Lost: 25 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.

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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 2

Action 415915

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415915
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
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: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 12/30/2024
--	---

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 3

Action 415915

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415915
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
<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	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (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	Yes

Remediation Plan	
<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
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	4840
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	11/22/2024
On what date will (or did) the final sampling or liner inspection occur	02/28/2025
On what date will (or was) the remediation complete(d)	02/28/2025
What is the estimated surface area (in square feet) that will be reclaimed	4500
What is the estimated volume (in cubic yards) that will be reclaimed	667
What is the estimated surface area (in square feet) that will be remediated	4500
What is the estimated volume (in cubic yards) that will be remediated	667
<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 415915

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415915
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<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>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<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: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 12/30/2024
<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 415915

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415915
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
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.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 415915

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415915
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	411971
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/20/2024
What was the (estimated) number of samples that were to be gathered	50
What was the sampling surface area in square feet	28300

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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Santa Fe, NM 87505

CONDITIONS

Action 415915

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415915
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Approved.	1/2/2025