



CLOSURE REPORT

Property:

Morning Federal #0001H

**Eddy County, New Mexico
32.222511° N, 104.012780° W
NMOCD Incident ID: nAPP2317843434**

February 26, 2024
Ensolum Project No. 03B1417085

Prepared for:

**Oxy USA Inc.
P.O. Box 4294
Houston, TX 77210
Attn: Mr. Wade Dittrich**

Prepared by:


Beaux Jennings
Senior Project Manager


Heather Holthaus
Senior Project Manager



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ENSOLUM

CLOSURE REPORT

Morning Federal #0001H

Eddy County, New Mexico
32.222511° N, 104.012780° W
NMOCD Incident ID: nAPP2317843434

Ensolum Project No. 03B1417085

1.0 INTRODUCTION

1.1 Executive Summary

- On June 11, 2023, a release of crude oil and produced water was reported from a water transfer line due to a failure in a 6" poly pipe at the Morning Federal #0001H, hereinafter referred to as the "Site". Approximately 28 barrels (bbls) of crude oil and 4 bbls of produced water were released onto the ground surface with approximately 26 bbls of crude oil and 2 bbls of produced water recovered. The release impacted an area approximately 120 feet long by 55 feet wide. The line was shut down and repaired and initial response actions were conducted at the Site.
- Between November 6, 2023 and January 18, 2024, excavation and remediation activities were conducted at the Site, and Ensolum collected a total of 22 composite soil samples from 14 locations on the excavation floor (FS-1 through FS-14) as well as 14 composite soil samples from eight locations along the excavation sidewalls (SW-1 through SW-8). Additionally, Ensolum collected eight delineation soil samples (DS-1 through DS-8) from locations approximately 1-2 feet outside of the excavation area at a depth of 0-0.25 feet below ground surface (bgs).
- The primary objective of the closure activities was to reduce chemical of concern (COC) concentrations in the on-Site soils to below the applicable New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) Closure Criteria for Soils Impacted by a Release using the New Mexico Administrative Code (NMAC) 19.15.29 *Releases* as guidance.
- The final excavation area measured approximately 120 feet long and 55 feet wide. The depth of the excavation measured approximately one to 4.5 feet bgs at its maximum depth.
- Based on the laboratory analytical results, the final composite soil samples collected from the excavation area and the delineation background samples collected outside the excavation area did not exhibit benzene, total benzene, toluene, ethylbenzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), motor oil range organics (MRO) or chloride concentrations above the applicable NMOCD Closure Criteria.
- Subsequent to the results of the confirmation soil sampling, the excavated soils were removed and taken off-Site for proper disposal and the excavated area was backfilled with clean fill material and then contoured to the original surrounding grade.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

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1.2 Site Description & Background

Operator:	Oxy USA Inc. (Oxy)
Site Name:	Morning Federal #0001H
Location:	32. 222511 N, 104.012780 W Eddy County, New Mexico
Property:	Oxy USA Inc. (Private)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

The Topographic Map depicting the location of the Site is included as **Figure 1**, the Site Vicinity Map is included as **Figure 2**, the Site Map indicating the locations of composite soil samples is included as **Figure 3**, and the Closure Criteria Map is included as **Figure 4** in **Appendix A**.

1.3 Project Objective

The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria concentrations.

2.0 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.

- The Site is 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 noted to be 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 Bureau of Land Management (BLM), the Site is not located within an unstable area.

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- The Site is not located within an area of minimal flood hazard.

A Closure Criteria Map is included as **Figure 4** in **Appendix A**.

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

3.0 SOIL REMEDIATION ACTIVITIES

On June 11, 2023, a release of crude oil and produced water was reported at the Site. Approximately 28 bbls of crude oil and 4 bbls of produced water were released onto the ground surface with approximately 26 bbls of crude oil and 2 bbls of produced water recovered. The release impacted an area approximately 120 feet long by 55 feet wide. The line was shut down and repaired and initial response actions were conducted at the Site.

On November 6, 2023, subsequent to excavation activities, Ensolum arrived on site and collected a total of 14 composite soil samples from the excavation floor (FS-1 through FS-14), from depths ranging from 1 to 4 feet bgs, as well as eight composite soil samples from the excavation sidewalls (SW-1 through SW-8), from depths ranging from 0-3.5 feet bgs to 0-4 feet bgs. Based on laboratory analytical results, additional remediation at the Site was required.

Subsequent to additional remediation activities, Ensolum arrived on-Site on November 30, 2023 and collected a total of six composite soil samples from the excavation floor (FS-4, FS-6, FS-7, FS-8, FS-10 and FS-12), from depths ranging from 1.5 to 4 feet bgs, and a total of three composite soil samples from the excavation sidewalls (SW-2, SW-4, and SW-5), with depths ranging from 0-3.5 feet bgs to 0-4 feet bgs. Based on laboratory analytical results, additional remediation at the Site was required.

On December 7, 2023, after additional remediation activities, Ensolum arrived on-Site and collected a total of two composite soil samples from the excavation floor (FS-7 and FS-10), with depths of 3 feet bgs and 4.5 feet bgs, respectively, as well as one composite soil sample from the excavation sidewall (SW-4) at a depth of 0-4 feet bgs. Additionally, Ensolum collected eight delineation soil samples (DS-1 through DS-8) from locations approximately 1-2 feet outside of the excavation area at a depth of 0-0.25 feet bgs. Based on laboratory analytical results, additional remediation at the Site was required in the vicinity of SW-4.

Ensolum returned to the Site on January 18, 2024, to recollect one composite soil sample from the excavation sidewall (SW-4) at depth of 0-4 feet bgs.

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Based on the laboratory analytical results, no additional excavation or remediation was required. Subsequent to the results of the confirmation soil sampling, the excavated soils were removed and taken off-Site for proper disposal.

The final excavation area measured approximately 120 feet long and 55 feet wide. The depth of the excavation measured approximately one to 4.5 feet bgs at its maximum depth.

The lithology encountered during the completion of sampling activities consisted primarily of windblown sand.

Figure 3 identifies approximate soil sample locations and approximate dimensions of the impacted area with respect to the Site (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

4.0 SOIL SAMPLING PROGRAM

Ensolum's soil sampling program included the collected of a total of 22 composite soil samples from 14 locations on the excavation floor (FS-1 through FS-14), 14 composite soil samples from eight locations along the excavation sidewalls (SW-1 through SW-8), and eight delineation soil samples from eight locations approximately 1-2 feet outside of the excavation area (DS-1 through DS-8).

The soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to Cardinal Laboratories in Hobbs, New Mexico for standard laboratory analysis.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The soil samples were analyzed for BTEX utilizing Environmental Protection Agency (EPA) SW-846 Method 8021B, TPH GRO/DRO/MRO utilizing EPA SW-846 Method 8015M, and chloride utilizing EPA Method 4500-Cl B.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix E**.

6.0 DATA EVALUATION

Ensolum compared the benzene, total BTEX, TPH GRO/DRO, TPH GRO/DRO/MRO, and chloride concentrations associated with the final excavation floor (FS-1 through FS-14), the final excavation sidewall (SW-1 through SW-8), and the confirmation delineation samples collected approximately 1-2 feet outside the excavation area (DS-1 through DS-8) to the applicable NMOCD Closure Criteria.

- Laboratory analytical results indicate benzene concentrations for the final confirmation soil samples are below the laboratory sample detection limits (SDLs) and the applicable NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicate that total BTEX concentrations for the final confirmation soil samples are below the laboratory SDLs and the applicable NMOCD Closure Criteria of 50 mg/kg for depth to groundwater \leq 50 feet.
- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the final confirmation soil samples range from below the laboratory SDLs to 88.9 mg/kg, which are below the applicable NMOCD Closure Criteria of 100 mg/kg for depth to groundwater \leq 50 feet.

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- Laboratory analytical results indicate chloride concentrations for the final confirmation soil samples range from below the laboratory SDLs to 592 mg/kg, which are below the applicable NMOCD Closure Criteria of 600 mg/kg for depth to groundwater \leq 50 feet.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**.

7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the confirmation soil sampling, the excavated soils were removed and taken off-Site for property disposal. The excavated area was backfilled with clean fill material and caliche, and then contoured to the original surrounding grade.

8.0 FINDINGS AND RECOMMENDATION

- On June 11, 2023, a release of crude oil and produced water was reported from a water transfer line due to a failure in a 6" poly pipe at the Site. Approximately 28 bbls of crude oil and 4 bbls of produced water were released onto the ground surface with approximately 26 bbls of crude oil and 2 bbls of produced water recovered. The release impacted an area approximately 120 feet long by 55 feet wide. The line was shut down and repaired and initial response actions were conducted at the Site.
- Between November 6, 2023 and January 18, 2024, excavation and remediation activities were conducted at the Site, and Ensolum collected a total of 22 composite soil samples from 14 locations on the excavation floor (FS-1 through FS-14) as well as 14 composite soil samples from eight locations along the excavation sidewalls (SW-1 through SW-8). Additionally, Ensolum collected eight delineation soil samples (DS-1 through DS-8) from locations approximately 1-2 feet outside of the excavation area at a depth of 0-0.25 feet bgs.
- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria concentrations.
- The final excavation area measured approximately 120 feet long and 55 feet wide. The depth of the excavation measured approximately one to 4.5 feet bgs at its maximum depth.
- Based on the laboratory analytical results, the final composite soil samples collected from the excavation area and the delineation background samples collected outside the excavation area did not exhibit BTEX, TPH GRO/DRP/MRO, or chloride concentrations above the applicable NMOCD Closure Criteria.
- Subsequent to the results of the confirmation soil sampling, the excavated soils were removed and taken off-Site for proper disposal and the excavated area was backfilled with clean fill material and then contoured to the original surrounding grade.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

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9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

9.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendations are based solely upon data available to Ensolum at the time of these services.

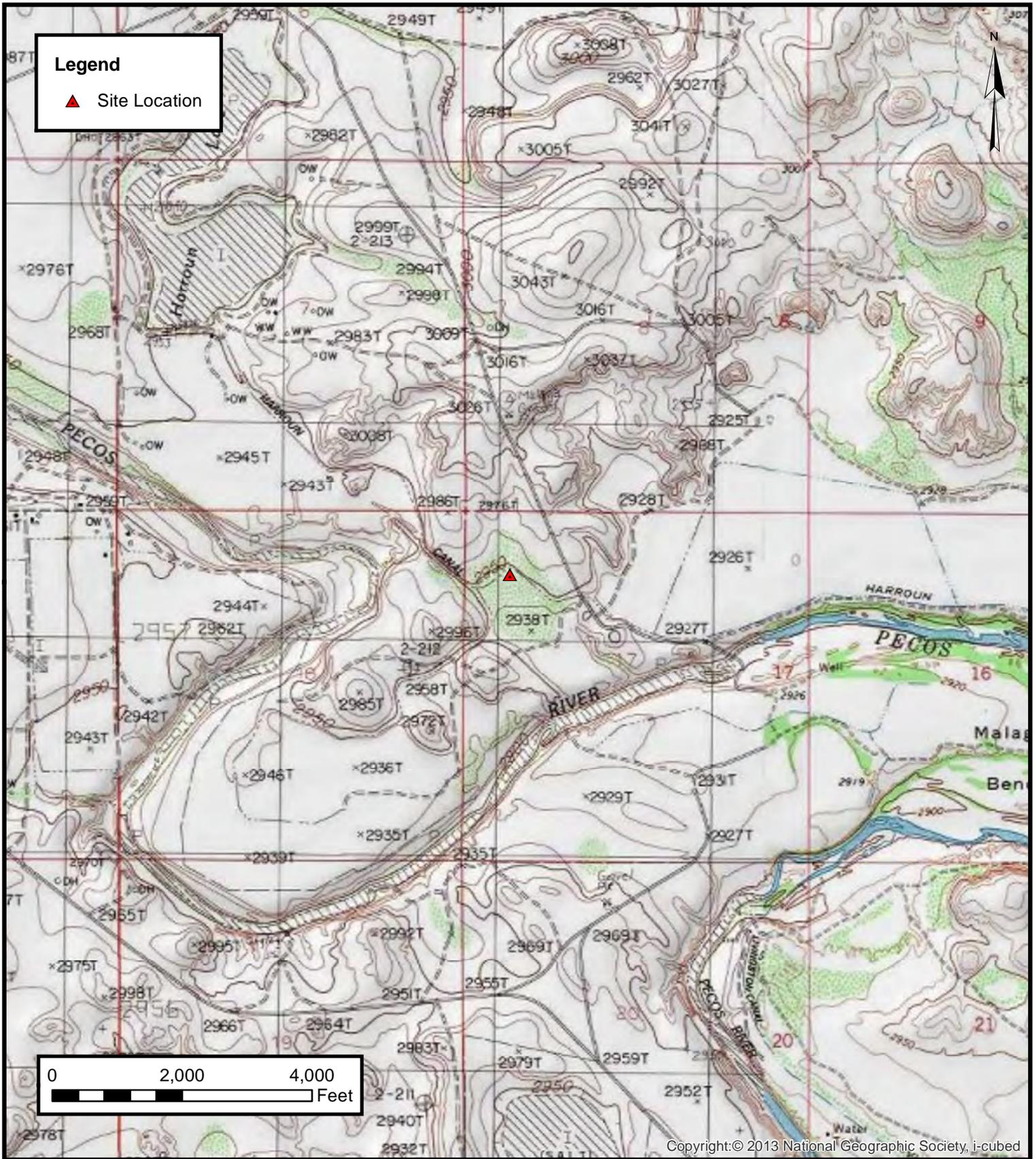
9.3 Reliance

This report has been prepared for the exclusive use of Oxy USA, Inc., and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Oxy USA, Inc. and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Closure Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



APPENDIX A

Figures



ENSOLUM
 Environmental, Engineering and
 Hydrogeologic Consultants

Topographic Map
 Oxy USA Inc.
 Morning Federal #0001H
 32.222511° N, 104.012780° W
 Eddy County, New Mexico

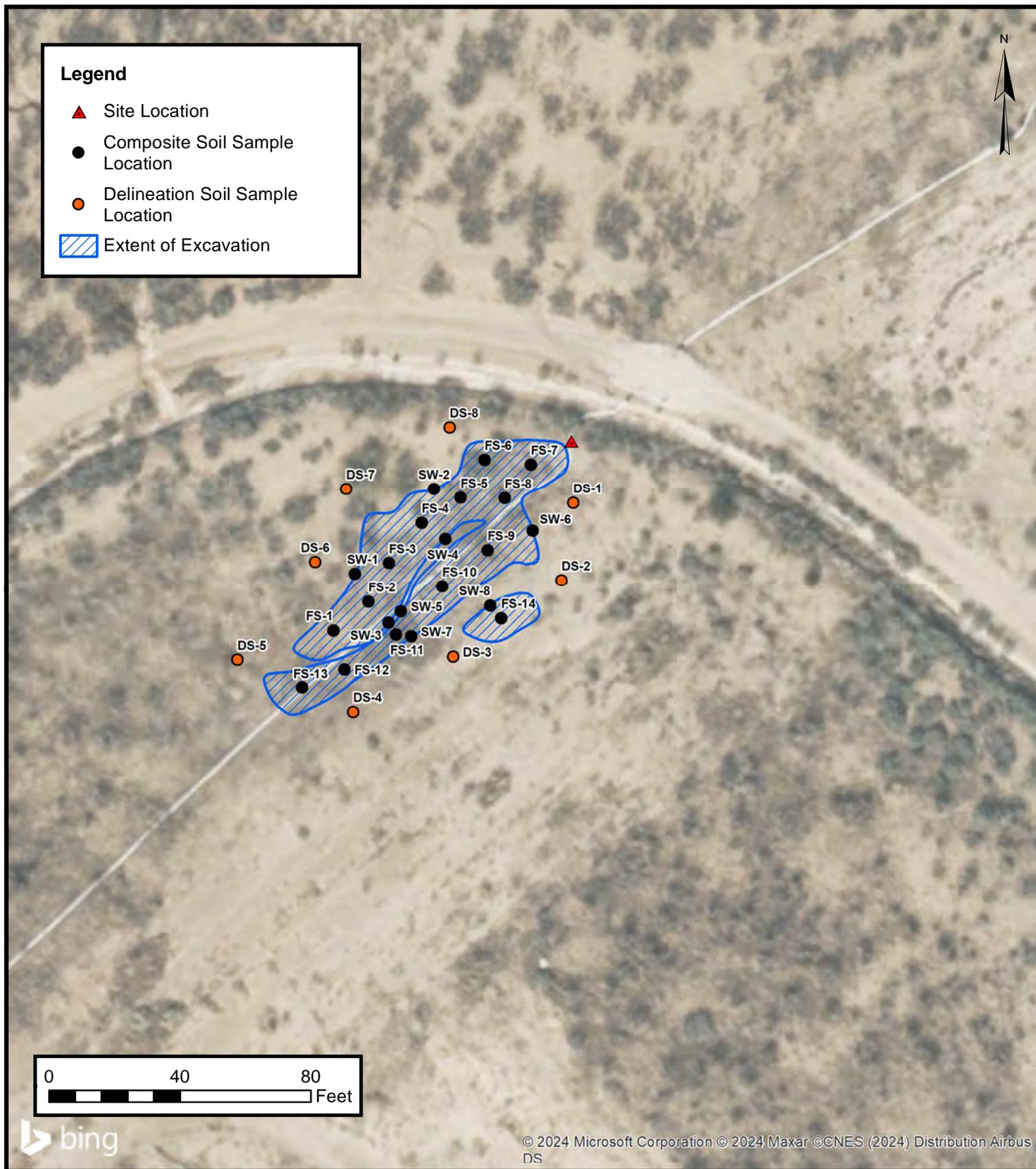
PROJECT NUMBER: 03B1417085

FIGURE
 1



Site Vicinity Map
Oxy USA Inc.
Morning Federal #0001H
32.222511° N, 104.012780° W
Eddy County, New Mexico
PROJECT NUMBER: 03B1417085

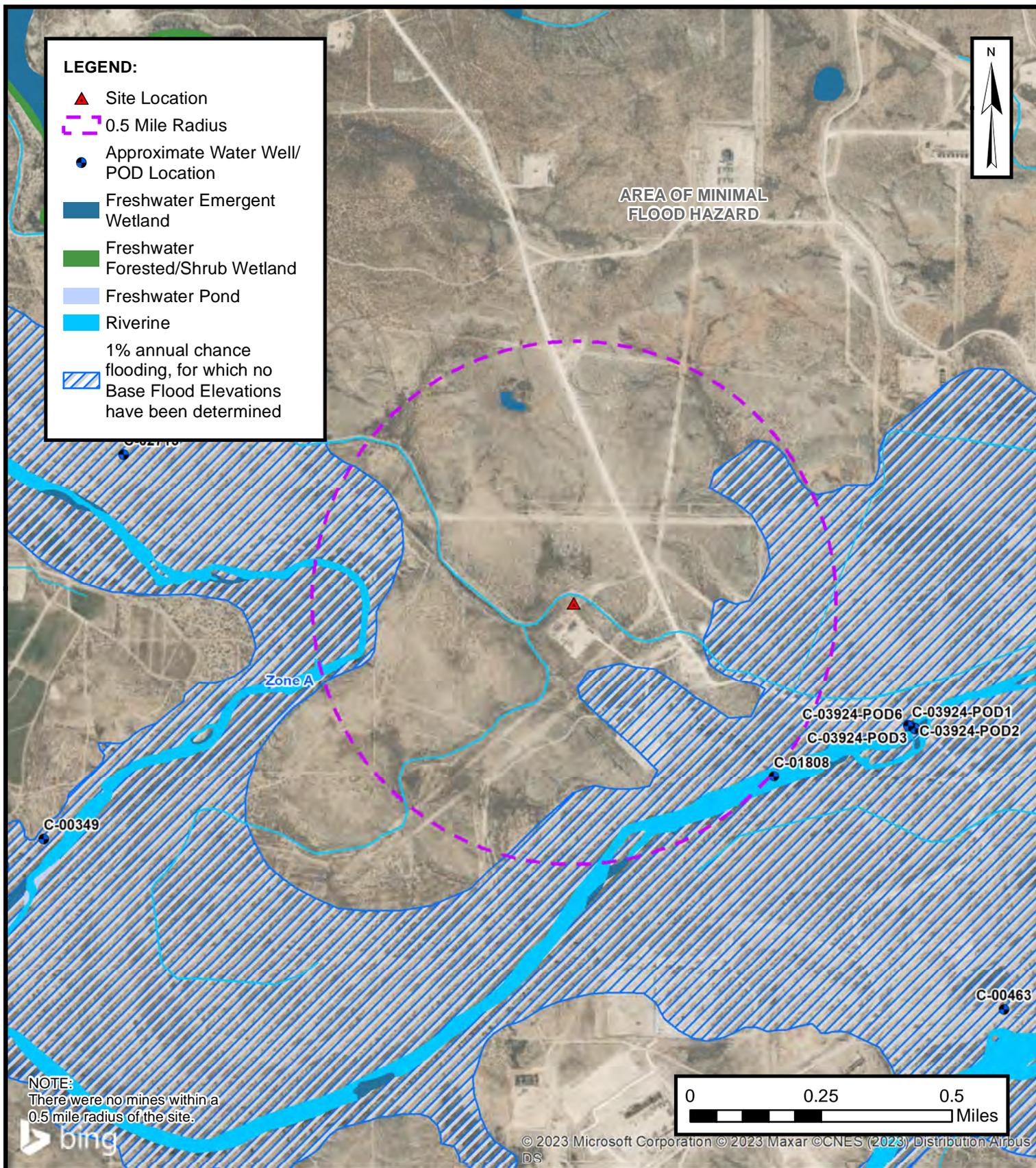
FIGURE
2



Site Vicinity Map
Oxy USA Inc.
Morning Federal #0001H
32.222511° N, 104.012780° W
Eddy County, New Mexico

PROJECT NUMBER: 03B1417085

FIGURE
3



Closure Criteria Map
 Oxy USA Inc.
 Morning Federal #0001H
 32.222511° N, 104.012780° W
 Eddy County, New Mexico

PROJECT NUMBER: 03B1417085

FIGURE
4



APPENDIX B

Supporting Documentation

Beaux Jennings

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Thursday, September 7, 2023 9:10 AM
To: Beaux Jennings
Cc: Dittrich, John W; Pierce, Tyson (Legacy Safety & Consulting LLC); Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD
Subject: Extension Approval - NAPP2317843434 MORNING FEDERAL #0001H @ D-17-24S-29E

[****EXTERNAL EMAIL****]

RE: Incident #**NAPP2317843434**

Beaux,

Your request for an extension to **December 9th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Sent: Wednesday, September 6, 2023 2:12 PM
To: Beaux Jennings <bjennings@ensolum.com>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC) <Tyson_Pierce@oxy.com>
Subject: RE: [EXTERNAL] Morning Federal #0001H

Good afternoon, Beaux

Your request has been received and forwarded to the appropriate contact.

Thank you,

Mike Buchanan • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113

505.490.0798 | michael.buchanan@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd>



From: Beaux Jennings <bjennings@ensolum.com>
Sent: Tuesday, September 5, 2023 4:04 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC) <Tyson_Pierce@oxy.com>
Subject: [EXTERNAL] Morning Federal #0001H

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to request a 90-day extension for the Morning Federal #0001H (Incident ID: nAPP2317843434). Excavation activities are currently being conducted at the site and require more time, due to multiple pipelines within the vicinity of the release. I have attached a few representative photos of the area. Please let us know if you have any questions.

Thank you,



Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC
in f

From: [Wells, Shelly, EMNRD](#)
To: [Georgiana McSwane](#)
Cc: [Dittrich, John W](#); tyson_pierce@oxy.com; [Hamlet, Robert, EMNRD](#); [Bratcher, Michael, EMNRD](#)
Subject: RE: [EXTERNAL] Morning Federal #0001H (Incident ID # nAPP2317843434)
Date: Tuesday, October 31, 2023 11:40:27 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

You don't often get email from shelly.wells@emnrd.nm.gov. [Learn why this is important](#)

[**EXTERNAL EMAIL **]

Hi Georgiana,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

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

From: Georgiana McSwane <gmcswane@ensolum.com>
Sent: Tuesday, October 31, 2023 10:35 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; tyson_pierce@oxy.com
Subject: [EXTERNAL] Morning Federal #0001H (Incident ID # nAPP2317843434)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Morning Federal #0001H (Incident ID # nAPP2317843434) site on Friday, November 3rd at 10am. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



Georgiana McSwane

Project Manager

254-459-2338

Ensolum, LLC

in f 

Kelly Lowery

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, November 2, 2023 2:14 PM
To: Kelly Lowery
Cc: Georgiana McSwane; Wade_Dittrich@oxy.com; tyson_pierce@oxy.com; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] Morning Federal #0001H (Incident ID # nAPP2317843434)

[**EXTERNAL EMAIL**]

Hi Kelly,

Thank you for providing the update. The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

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

From: Kelly Lowery <klowery@ensolum.com>
Sent: Thursday, November 2, 2023 12:37 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Cc: Georgiana McSwane <gmcswane@ensolum.com>; Wade_Dittrich@oxy.com; tyson_pierce@oxy.com; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] Morning Federal #0001H (Incident ID # nAPP2317843434)

Ms. Wells,

The sampling event taking place on Friday, November 3rd, 2023 at the Morning Federal #0001H (Incident ID # nAPP2317843434) has been pushed to Monday, November 6th, 2023. This email is being sent by Ensolum, LLC on behalf of Oxy USA Inc, to provide notification for sampling activities that will be conducted at the Morning Federal #0001H (Incident ID # nAPP2317843434) site on Monday, November 6th, 2023 at 10am. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



Kelly Lowery, GIT

Project Geologist

214-733-3165

Ensolum, LLC



From: Georgiana McSwane <gmcswane@ensolum.com>
Sent: Thursday, November 2, 2023 1:22 PM
To: Kelly Lowery <klowery@ensolum.com>
Subject: Fwd: [EXTERNAL] Morning Federal #0001H (Incident ID # nAPP2317843434)

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From: Wells, Shelly, EMNRD <Shelly.Wells@emnrn.dnm.gov>
Sent: Tuesday, October 31, 2023 11:40 AM
To: Georgiana McSwane <gmcswane@ensolum.com>
Cc: Dittrich, John W <Wade.Dittrich@oxy.com>; tyson_pierce@oxy.com <tyson_pierce@oxy.com>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrn.dnm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrn.dnm.gov>
Subject: RE: [EXTERNAL] Morning Federal #0001H (Incident ID # nAPP2317843434)

You don't often get email from shelly.wells@emnrn.dnm.gov. [Learn why this is important](#)

[**EXTERNAL EMAIL**]

Hi Georgiana,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive | Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrn.dnm.gov
<http://www.emnrn.dnm.gov/OCD/>

From: Georgiana McSwane <gmcswane@ensolum.com>
Sent: Tuesday, October 31, 2023 10:35 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrn.dnm.gov>
Cc: Dittrich, John W <Wade.Dittrich@oxy.com>; tyson_pierce@oxy.com
Subject: [EXTERNAL] Morning Federal #0001H (Incident ID # nAPP2317843434)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hello,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Morning Federal #0001H (Incident ID # nAPP2317843434) site on Friday, November 3rd at 10am. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



Georgiana McSwane

Project Manager

254-459-2338

Ensolum, LLC

in f 

Beaux Jennings

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Monday, December 11, 2023 11:18 AM
To: Beaux Jennings
Cc: Dittrich, John W; Pierce, Tyson (Legacy Safety & Consulting LLC); Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD
Subject: RE: [EXTERNAL] RE: Extension Approval - NAPP2317843434 MORNING FEDERAL #0001H @ D-17-24S-29E

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[**EXTERNAL EMAIL**]

Beaux,

OCD Permitting has been revamped recently and automatically defaults to 90 days for a Remediation Closure Report Extension, which this appears to be. An extension to **March 4th, 2024** is approved. Please include this e-mail correspondence in the Remediation Closure Report.

Please forgive the delay, I've been out of the office for a week with Covid 19.

Regards,

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Beaux Jennings <bjennings@ensolum.com>
Sent: Tuesday, December 5, 2023 10:48 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC) <Tyson_Pierce@oxy.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: [EXTERNAL] RE: Extension Approval - NAPP2317843434 MORNING FEDERAL #0001H @ D-17-24S-29E

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Morning,

On behalf of Oxy USA Inc, Ensolum, LLC would like to request a 30-day extension for the Morning Federal #0001H (Incident ID: nAPP2317843434). Excavation activities are complete and additional sampling will take place this week. I have attached a few representative photos of the area. Please let us know if you have any questions.

Thank you,



Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC
in f t

From: Beaux Jennings
Sent: Thursday, September 7, 2023 9:32 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Dittrich, John W <Wade.Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC) <Tyson.Pierce@oxy.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: Re: Extension Approval - NAPP2317843434 MORNING FEDERAL #0001H @ D-17-24S-29E

Will do, thank you!

-Beaux

On Sep 7, 2023, at 8:09 AM, Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov> wrote:

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2317843434

Beaux,

Your request for an extension to **December 9th, 2023** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>
<image005.jpg>

From: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Sent: Wednesday, September 6, 2023 2:12 PM
To: Beaux Jennings <bjennings@ensolum.com>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD

<Robert.Hamlet@emnrd.nm.gov>

Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC)

<Tyson_Pierce@oxy.com>

Subject: RE: [EXTERNAL] Morning Federal #0001H

Good afternoon, Beaux

Your request has been received and forwarded to the appropriate contact.

Thank you,

Mike Buchanan • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.490.0798 | michael.buchanan@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd>
<image005.jpg>

From: Beaux Jennings <bjennings@ensolum.com>
Sent: Tuesday, September 5, 2023 4:04 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC)
<Tyson_Pierce@oxy.com>
Subject: [EXTERNAL] Morning Federal #0001H

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to request a 90-day extension for the Morning Federal #0001H (Incident ID: nAPP2317843434). Excavation activities are currently being conducted at the site and require more time, due to multiple pipelines within the vicinity of the release. I have attached a few representative photos of the area. Please let us know if you have any questions.

Thank you,

<image006.png>

Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC
<image007.png>
<image008.png>
<image009.png>



APPENDIX C

Photographic Documentation



View of release area, facing southeast.



View of release area, facing northwest.



View of release area, facing northwest.



View of release area, facing southeast.



View of release area during remediation activities, facing southeast.



View of release area during remediation activities, facing southeast.



View of excavation area during remediation activities, facing southwest.



View of excavation area during remediation activities, facing southwest.



APPENDIX D

Table

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Morning Federal #0001H
 Oxy USA Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417085

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	
Floor Sample Analytical Results													
FS-1	11/6/2023	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	18.9	<10.0	18.9	32.0	
FS-2	11/6/2023	3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128	
FS-3	11/6/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.3	<10.0	10.3	80.0	
FS-4	11/6/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	318	87.6	406	2,400	
	11/30/2023	4	NS					<10.0	16.9	<10.0	16.9	96.0	
FS-5	11/6/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144	
FS-6	11/6/2023	2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	186	35.7	222	640	
	11/30/2023	2.5	NS					<10.0	<10.0	<10.0	<10.0	144	
FS-7	11/6/2023	2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	101	22.6	124	944	
	11/30/2023	2.5	NS					<10.0	110	36.7	147	1,520	
	12/7/2023	3	NS					<10.0	17.8	<10.0	17.8	208	
FS-8	11/6/2023	2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	77.3	11.6	88.9	832	
	11/30/2023	2.5	NS					NS					592
FS-9	11/6/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	56.0	<10.0	56.0	208	
FS-10	11/6/2023	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	34.7	<10.0	34.7	672	
	11/30/2023	4	NS					NS					1,120
	12/7/2023	4.5	NS					NS					240
FS-11	11/6/2023	2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	36.5	<10.0	36.5	544	
FS-12	11/6/2023	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	290	39.6	330	288	
	11/30/2023	1.5	NS					<10.0	<10.0	<10.0	<10.0	NS	
FS-13	11/6/2023	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.8	<10.0	14.8	80.0	
FS-14	11/6/2023	3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	560	
Sidewall Sample Analytical Results													
SW-1	11/6/2023	0 - 3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	26.3	<10.0	26.3	176	
SW-2	11/6/2023	0 - 3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	327	90.9	418	576	
	11/30/2023	0 - 3.5	NS					<10.0	<10.0	<10.0	<10.0	NS	
SW-3	11/6/2023	0 - 3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.9	<10.0	12.9	464	
SW-4	11/6/2023	0 - 3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	225	75.5	301	560	
	11/30/2023	0 - 3.5	NS					<10.0	278	76.1	354	NS	
	12/7/2023	0 - 4	NS					<10.0	1,900	561	2,461	NS	
	1/18/2024	0 - 4	NS					<10.0	<10.0	<10.0	<10.0	NS	
SW-5	11/6/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	56.6	<10.0	56.6	1,220	
	11/30/2023	0 - 4	NS					NS					832
	12/7/2023	0 - 4	NS					NS					<16.0
SW-6	11/6/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.1	<10.0	22.1	224	
SW-7	11/6/2023	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208	
SW-8	11/6/2023	0 - 3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.9	<10.0	23.9	176	

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS

Morning Federal #0001H
Oxy USA Inc.
Eddy County, New Mexico
Ensolum Project No. 03B1417085

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
Delineation Sample Analytical Results												
DS-1	12/7/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
DS-2	12/7/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
DS-3	12/7/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
DS-4	12/7/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
DS-5	12/7/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
DS-6	12/7/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
DS-7	12/7/2023	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
DS-8	12/7/2023	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)

 Additional Excavation and/or Re-Sample

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

NS: Not Sampled

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



APPENDIX E

Laboratory Data Sheets & Chain-of-Custody Documentation



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

November 10, 2023

BEAUX JENNINGS

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MORNING FEDERAL #0001 H

Enclosed are the results of analyses for samples received by the laboratory on 11/06/23 14:55.

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 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".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: FS - 1 2 (H236071-01)

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	11/07/2023	ND	1.99	99.3	2.00	1.03	
Toluene*	<0.050	0.050	11/07/2023	ND	2.06	103	2.00	0.925	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.07	104	2.00	0.481	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.23	104	6.00	0.649	
Total BTEX	<0.300	0.300	11/07/2023	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	32.0	16.0	11/07/2023	ND	416	104	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	11/08/2023	ND	182	91.1	200	0.00110	
DRO >C10-C28*	18.9	10.0	11/08/2023	ND	179	89.4	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: FS - 2 3.5 (H236071-02)

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	11/07/2023	ND	1.99	99.3	2.00	1.03	
Toluene*	<0.050	0.050	11/07/2023	ND	2.06	103	2.00	0.925	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.07	104	2.00	0.481	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.23	104	6.00	0.649	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	128	16.0	11/07/2023	ND	416	104	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	11/08/2023	ND	182	91.1	200	0.00110	
DRO >C10-C28*	<10.0	10.0	11/08/2023	ND	179	89.4	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: FS - 3 4 (H236071-03)

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	11/07/2023	ND	1.99	99.3	2.00	1.03	
Toluene*	<0.050	0.050	11/07/2023	ND	2.06	103	2.00	0.925	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.07	104	2.00	0.481	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.23	104	6.00	0.649	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	80.0	16.0	11/07/2023	ND	416	104	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	11/08/2023	ND	182	91.1	200	0.00110	
DRO >C10-C28*	10.3	10.0	11/08/2023	ND	179	89.4	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 83.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: FS - 4 4 (H236071-04)

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	11/07/2023	ND	1.93	96.6	2.00	9.88	
Toluene*	<0.050	0.050	11/07/2023	ND	2.00	99.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.03	102	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.04	101	6.00	9.39	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	2400	16.0	11/07/2023	ND	416	104	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	11/08/2023	ND	182	91.1	200	0.00110	
DRO >C10-C28*	318	10.0	11/08/2023	ND	179	89.4	200	3.74	
EXT DRO >C28-C36	87.6	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: FS - 5 4 (H236071-05)

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	11/07/2023	ND	1.93	96.6	2.00	9.88	
Toluene*	<0.050	0.050	11/07/2023	ND	2.00	99.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.03	102	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.04	101	6.00	9.39	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	144	16.0	11/07/2023	ND	416	104	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	11/08/2023	ND	182	91.1	200	0.00110	
DRO >C10-C28*	<10.0	10.0	11/08/2023	ND	179	89.4	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: FS - 6 2.5 (H236071-06)

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	11/07/2023	ND	1.93	96.6	2.00	9.88	
Toluene*	<0.050	0.050	11/07/2023	ND	2.00	99.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.03	102	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.04	101	6.00	9.39	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	640	16.0	11/07/2023	ND	416	104	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	11/08/2023	ND	182	91.1	200	0.00110	
DRO >C10-C28*	186	10.0	11/08/2023	ND	179	89.4	200	3.74	
EXT DRO >C28-C36	35.7	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 76.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: FS - 7 2.5 (H236071-07)

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	11/07/2023	ND	1.93	96.6	2.00	9.88	
Toluene*	<0.050	0.050	11/07/2023	ND	2.00	99.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.03	102	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.04	101	6.00	9.39	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	944	16.0	11/07/2023	ND	416	104	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	11/08/2023	ND	182	91.1	200	0.00110	
DRO >C10-C28*	101	10.0	11/08/2023	ND	179	89.4	200	3.74	
EXT DRO >C28-C36	22.6	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: FS - 8 2.5 (H236071-08)

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	11/07/2023	ND	1.93	96.6	2.00	9.88	
Toluene*	<0.050	0.050	11/07/2023	ND	2.00	99.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.03	102	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.04	101	6.00	9.39	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	832	16.0	11/07/2023	ND	416	104	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	11/08/2023	ND	182	91.1	200	0.00110	
DRO >C10-C28*	77.3	10.0	11/08/2023	ND	179	89.4	200	3.74	
EXT DRO >C28-C36	11.6	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: FS - 9 4 (H236071-09)

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	11/07/2023	ND	1.93	96.6	2.00	9.88	
Toluene*	<0.050	0.050	11/07/2023	ND	2.00	99.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.03	102	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.04	101	6.00	9.39	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	208	16.0	11/07/2023	ND	416	104	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	11/08/2023	ND	182	91.1	200	0.00110	
DRO >C10-C28*	56.0	10.0	11/08/2023	ND	179	89.4	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 75.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.3 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: FS - 10 4 (H236071-10)

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	11/07/2023	ND	1.93	96.6	2.00	9.88	
Toluene*	<0.050	0.050	11/07/2023	ND	2.00	99.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.03	102	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.04	101	6.00	9.39	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	672	16.0	11/07/2023	ND	416	104	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	11/08/2023	ND	182	91.1	200	0.00110	
DRO >C10-C28*	34.7	10.0	11/08/2023	ND	179	89.4	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 71.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.4 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: FS - 11 2.5 (H236071-11)

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	11/07/2023	ND	1.93	96.6	2.00	9.88	
Toluene*	<0.050	0.050	11/07/2023	ND	2.00	99.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.03	102	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.04	101	6.00	9.39	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	544	16.0	11/07/2023	ND	416	104	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	11/08/2023	ND	182	91.1	200	0.00110	
DRO >C10-C28*	36.5	10.0	11/08/2023	ND	179	89.4	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: FS - 12 1.5 (H236071-12)

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	11/07/2023	ND	1.93	96.6	2.00	9.88	
Toluene*	<0.050	0.050	11/07/2023	ND	2.00	99.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.03	102	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.04	101	6.00	9.39	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	288	16.0	11/07/2023	ND	416	104	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	11/08/2023	ND	182	91.1	200	0.00110	
DRO >C10-C28*	290	10.0	11/08/2023	ND	179	89.4	200	3.74	
EXT DRO >C28-C36	39.6	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 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
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: FS - 13 1 (H236071-13)

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	11/07/2023	ND	1.93	96.6	2.00	9.88	
Toluene*	<0.050	0.050	11/07/2023	ND	2.00	99.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.03	102	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.04	101	6.00	9.39	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	11/07/2023	ND	416	104	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	11/08/2023	ND	182	91.1	200	0.00110	
DRO >C10-C28*	14.8	10.0	11/08/2023	ND	179	89.4	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: FS - 14 0-3.5 (H236071-14)

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	11/07/2023	ND	1.93	96.6	2.00	9.88	
Toluene*	<0.050	0.050	11/07/2023	ND	2.00	99.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.03	102	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.04	101	6.00	9.39	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	560	16.0	11/07/2023	ND	416	104	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	11/08/2023	ND	182	91.1	200	0.00110	
DRO >C10-C28*	<10.0	10.0	11/08/2023	ND	179	89.4	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 77.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.1 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: SW -1 0-3.5 (H236071-15)

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	11/07/2023	ND	1.93	96.6	2.00	9.88	
Toluene*	<0.050	0.050	11/07/2023	ND	2.00	99.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.03	102	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.04	101	6.00	9.39	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	176	16.0	11/07/2023	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	11/08/2023	ND	204	102	200	2.51	
DRO >C10-C28*	26.3	10.0	11/08/2023	ND	220	110	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 64.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: SW -2 0-3.5 (H236071-16)

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	11/07/2023	ND	1.93	96.6	2.00	9.88	
Toluene*	<0.050	0.050	11/07/2023	ND	2.00	99.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.03	102	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.04	101	6.00	9.39	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	576	16.0	11/07/2023	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	11/08/2023	ND	204	102	200	2.51	
DRO >C10-C28*	327	10.0	11/08/2023	ND	220	110	200	1.53	
EXT DRO >C28-C36	90.9	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 74.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.3 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: SW -3 0-3.5 (H236071-17)

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	11/07/2023	ND	1.93	96.6	2.00	9.88	
Toluene*	<0.050	0.050	11/07/2023	ND	2.00	99.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.03	102	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.04	101	6.00	9.39	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	464	16.0	11/07/2023	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	11/08/2023	ND	204	102	200	2.51	
DRO >C10-C28*	12.9	10.0	11/08/2023	ND	220	110	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 75.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.8 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: SW -4 0-3.5 (H236071-18)

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	11/07/2023	ND	1.93	96.6	2.00	9.88	
Toluene*	<0.050	0.050	11/07/2023	ND	2.00	99.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.03	102	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.04	101	6.00	9.39	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	560	16.0	11/07/2023	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	11/08/2023	ND	204	102	200	2.51	
DRO >C10-C28*	225	10.0	11/08/2023	ND	220	110	200	1.53	
EXT DRO >C28-C36	75.5	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 70.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.6 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: SW -5 0-4 (H236071-19)

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	11/07/2023	ND	1.93	96.6	2.00	9.88	
Toluene*	<0.050	0.050	11/07/2023	ND	2.00	99.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.03	102	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.04	101	6.00	9.39	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	1220	16.0	11/07/2023	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	11/08/2023	ND	204	102	200	2.51	
DRO >C10-C28*	56.6	10.0	11/08/2023	ND	220	110	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 68.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.2 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: SW -6 0-4 (H236071-20)

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	11/07/2023	ND	1.93	96.6	2.00	9.88	
Toluene*	<0.050	0.050	11/07/2023	ND	2.00	99.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.03	102	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.04	101	6.00	9.39	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	224	16.0	11/07/2023	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	11/08/2023	ND	204	102	200	2.51	
DRO >C10-C28*	22.1	10.0	11/08/2023	ND	220	110	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 72.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: SW -7 0-4 (H236071-21)

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	11/07/2023	ND	1.93	96.6	2.00	9.88		
Toluene*	<0.050	0.050	11/07/2023	ND	2.00	99.9	2.00	8.91		
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.03	102	2.00	9.27		
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.04	101	6.00	9.39		
Total BTEX	<0.300	0.300	11/07/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	208	16.0	11/07/2023	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	11/08/2023	ND	204	102	200	2.51		
DRO >C10-C28*	<10.0	10.0	11/08/2023	ND	220	110	200	1.53		
EXT DRO >C28-C36	<10.0	10.0	11/08/2023	ND						

Surrogate: 1-Chlorooctane 71.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.3 % 49.1-148

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Analytical Results For:

ENSOLUM
 BEAUX JENNINGS
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	11/06/2023	Sampling Date:	11/06/2023
Reported:	11/10/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001 H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Dionica Hinojos
Project Location:	OXY - EDDY, CO		

Sample ID: SW -8 0-3.5 (H236071-22)

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	11/07/2023	ND	1.93	96.6	2.00	9.88	
Toluene*	<0.050	0.050	11/07/2023	ND	2.00	99.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	11/07/2023	ND	2.03	102	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/07/2023	ND	6.04	101	6.00	9.39	
Total BTEX	<0.300	0.300	11/07/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	176	16.0	11/07/2023	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	11/08/2023	ND	204	102	200	2.51	
DRO >C10-C28*	23.9	10.0	11/08/2023	ND	220	110	200	1.53	
EXT DRO >C28-C36	<10.0	10.0	11/08/2023	ND					

Surrogate: 1-Chlorooctane 71.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.2 % 49.1-148

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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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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 Project Manager: Beaux Jennings Address: 601 N. Marland St. STE 400 City: Midland State: TX Zip: 79701 Phone #: 210-219-8858 Fax #: Project #: 03B1417085 Project Owner: Project Name: Morning Federal #0001H Project Location: Eddy County Sampler Name: Neave Dyer / Tabitha Guadian		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 HB007011 Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	PRESERV. DATE TIME	TP14 8015 M Chloride 4500 BTEX 8021 NFE 11/6/23	TSG
1	FS-1	2	C	X	11/6/23	1056	X
2	FS-2	3.5	C	X	11/6/23	1059	X
3	FS-3	4	C	X	11/6/23	1102	X
4	FS-4	4	C	X	11/6/23	1105	X
5	FS-5	14-25.4	C	X	11/6/23	1108	X
6	FS-6	2.5	C	X	11/6/23	1111	X
7	FS-7	2.5	C	X	11/6/23	1114	X
8	FS-8	2.5	C	X	11/6/23	1117	X
9	FS-9	4	C	X	11/6/23	1120	X
10	FS-10	4	C	X	11/6/23	1123	X

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Relinquished By: *Neave Dyer* Date: 11-20-23
 Received By: *Tabitha Guadian* Date: 11-20-23
 Relinquished By: *Neave Dyer* Date: 11-20-23
 Received By: *Tabitha Guadian* Date: 11-20-23

Delivered By: (Circle One) Observed Temp. °C: 1.90C
 Corrected Temp. °C: #140D
 Sample Condition: Cool Intact Yes No
 Checked By: *WJ*
 Turnaround Time: Standard Rush
 Bacteria (only) Sample Condition: Cool Intact Yes No
 Corrected Temp. °C: Yes No



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Project Manager: Beaux Jennings Address: 601 N. Marlenfeld St. STE 400 City: Midland State: TX Zip: 79701 Phone #: 210-219-8858 Fax #: Project #: 03B141 7085 Project Owner: Project Name: Morning Federal #2001H Project Location: Eddy County Sampler Name: Taylor Guadalupe / Noah Ducker		P.O. #: Company: Oxy USA, Inc. Attn: Wade Dittrich Address: City: State: Zip: Phone #: 575-390-2828 Fax #:	
FOR LAB USE ONLY Lab I.D. H3607D1 Sample I.D.		BILL TO ANALYSIS REQUEST	
Sample Depth (feet) 11 FS-11 12 FS-12 13 FS-13 14 FS-14 15 SW-1 16 SW-2 17 SW-3 18 SW-4 19 SW-5 20 SW-6	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERV.	SAMPLING DATE TIME
			TPH 8015M Chloride 4500 BTEX 8021 WFE 11/19/23 TK15

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Relinquished By: *[Signature]* Date: 11-14-23 Received By: *[Signature]* Date: 14:55

Relinquished By: *[Signature]* Date: Received By: *[Signature]* Date:

Delivered By: (Circle One) Observed Temp. °C 19.2 Sample Condition Cool Intact Yes No
 Corrected Temp. °C 14.40 Yes No

Turnaround Time: Standard Rush Bacteria (only) Cool Intact Yes No
 Thermometer ID #115-211 Correction Factor .05 Yes No

REMARKS: Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: Blennings@ensolum.com

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Project Manager: Beau Jennings Address: 601 N. Marlenfield St. STE 400 City: Midland State: TX Zip: 79701 Phone #: 210-219-8858 Fax #: Project #: 05B1417085 Project Owner: Project Name: Morning Federal #0021 H Project Location: Early County Sampler Name: Tabitha Guadian / Nean Duker		P.O. #: Company: Oxy USA, Inc. Attn: Wade Dittrich Address: City: State: Zip: Phone #: 575-390-2828 Fax #:	
FOR LAB USE ONLY Lab I.D. <u>H23607d1</u> Sample I.D.		BILL TO	
Sample Depth (feet) 01 SW-7 0-4 02 SW-8 0-3.5		ANALYSIS REQUEST	
(G)RAB OR (C)OMP. # CONTAINERS MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER: PRESERV: ACID/BASE, ICE / COOL, OTHER:		DATE TIME 11/6/23 1225 11/6/23 1230	
NFE		TPH 2015 M Chloride 4500 BTE X 8021	
Relinquished By: <u>Mellon</u> Date: <u>11-6-23</u> Time: <u>14:55</u>		Received By: <u>[Signature]</u> Date: <u>11/6/23</u> Time:	
Relinquished By:		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Bacteria (only) <input type="checkbox"/> Cool <input type="checkbox"/> Intact Sample Condition <input type="checkbox"/> Intact <input type="checkbox"/> Intact Observed Temp. °C <u>14.90</u> <input type="checkbox"/> Corrected Temp. °C <u>14.40</u>	
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: Bljennings@ensolum.com		Thermometer ID #113 Correction Factor:	

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



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December 04, 2023

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

RE: MORNING FEDERAL #0001H

Enclosed are the results of analyses for samples received by the laboratory on 11/30/23 12:59.

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 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".

Celey D. Keene
Lab Director/Quality Manager



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Analytical Results For:

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

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/04/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001H	Sampling Condition:	Cool & Intact
Project Number:	03B147085	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY, CO.		

Sample ID: FS 4 4' (H236449-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/30/2023	ND	416	104	400	3.92	
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	11/30/2023	ND	210	105	200	4.16	
DRO >C10-C28*	16.9	10.0	11/30/2023	ND	210	105	200	6.13	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					
<i>Surrogate: 1-Chlorooctane</i>		79.6 %	48.2-134						
<i>Surrogate: 1-Chlorooctadecane</i>		85.9 %	49.1-148						

Sample ID: FS 6 2.5' (H236449-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/30/2023	ND	416	104	400	3.92	
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	11/30/2023	ND	210	105	200	4.16	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	210	105	200	6.13	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					
<i>Surrogate: 1-Chlorooctane</i>		79.1 %	48.2-134						
<i>Surrogate: 1-Chlorooctadecane</i>		84.9 %	49.1-148						

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Analytical Results For:

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

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/04/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001H	Sampling Condition:	Cool & Intact
Project Number:	03B147085	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY, CO.		

Sample ID: FS 7 2.5' (H236449-03)

Chloride, SM4500CI-B **mg/kg** **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	11/30/2023	ND	416	104	400	3.92	

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	11/30/2023	ND	210	105	200	4.16	
DRO >C10-C28*	110	10.0	11/30/2023	ND	210	105	200	6.13	
EXT DRO >C28-C36	36.7	10.0	11/30/2023	ND					

Surrogate: 1-Chlorooctane 79.1 % 48.2-134
 Surrogate: 1-Chlorooctadecane 74.3 % 49.1-148

Sample ID: FS 8 2.5' (H236449-04)

Chloride, SM4500CI-B **mg/kg** **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	11/30/2023	ND	416	104	400	3.92	

Sample ID: FS 10 4' (H236449-05)

Chloride, SM4500CI-B **mg/kg** **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	11/30/2023	ND	416	104	400	3.92	

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Analytical Results For:

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

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/04/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001H	Sampling Condition:	Cool & Intact
Project Number:	03B147085	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY, CO.		

Sample ID: FS 12 1.5' (H236449-06)

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	11/30/2023	ND	210	105	200	4.16	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	210	105	200	6.13	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					
<hr/>									
Surrogate: 1-Chlorooctane	60.0 %	48.2-134							
Surrogate: 1-Chlorooctadecane	65.3 %	49.1-148							

Sample ID: SW 2 0-3.5' (H236449-07)

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	11/30/2023	ND	210	105	200	4.16	
DRO >C10-C28*	<10.0	10.0	11/30/2023	ND	210	105	200	6.13	
EXT DRO >C28-C36	<10.0	10.0	11/30/2023	ND					
<hr/>									
Surrogate: 1-Chlorooctane	84.1 %	48.2-134							
Surrogate: 1-Chlorooctadecane	91.9 %	49.1-148							

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Analytical Results For:

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

Received:	11/30/2023	Sampling Date:	11/30/2023
Reported:	12/04/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001H	Sampling Condition:	Cool & Intact
Project Number:	03B147085	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY, CO.		

Sample ID: SW 4 0-3.5' (H236449-08)

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	11/30/2023	ND	210	105	200	4.16	
DRO >C10-C28*	278	10.0	11/30/2023	ND	210	105	200	6.13	
EXT DRO >C28-C36	76.1	10.0	11/30/2023	ND					
<hr/>									
Surrogate: 1-Chlorooctane	76.7 %	48.2-134							
Surrogate: 1-Chlorooctadecane	93.2 %	49.1-148							

Sample ID: SW 5 0-4' (H236449-09)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	11/30/2023	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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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

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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 **BILL TO** ANALYSIS REQUEST

Project Manager: Beaux Jennings P.O. #: Company: Oxy USA Inc.
 Address: 601 N Marlenfeld Street, Suite 400 Attn: Wade Dittrich

City: Midland State: TX Zip: 79701
 Phone #: 210-219-8858 Fax #: Address:

Project #: 0381417285 Project Owner: City:
 Project Name: Morning Federal #0001H State: Zip:

Project Location: Eddy County Phone #: 575-390-2828
 Sampler Name: SK Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
1	FS 4	4	C	1								11/26/23	1042	BTEX (8021B)
2	FS 6	2.5	C	1								1044	1044	TPH (8015M)
3	FS 7	2.5	C	1								1045	1045	Chloride (4570)
4	FS 8	2.5	C	1								1045	1045	
5	FS 10	4	C	1								1039	1039	
6	FS 12	1.5	C	1								1037	1037	
7	SW 2	0-3.5	C	1								1043	1043	
8	SW 4	0-3.5	C	1								1049	1049	
9	SW 5	0-4	C	1								1037	1037	

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Relinquished By: *Karen Skimade* Date: *11-30-23* Time: *1:59*
 Received By: *Steady* Date: *12-28-23* Time: *1:59*
 Relinquished By: *Wade Dittrich* Date: *12-28-23* Time: *1:59*
 Received By: *Steady* Date: *12-28-23* Time: *1:59*

Delivered By: (Circle One) Observed Temp. °C: *3.9* Sample Condition: Cool Intact Yes No
 Corrected Temp. °C: *3.9* Checked BY: *SK* (Initials)
 Sampler - UPS - Bus - Other: Thermometer ID: #443 Correction Factor: -0.5°C #140
 Turnaround Time: *48 hours* Standard Rush Bacteria (only) Sample Condition: Cool Intact Yes No
 Observed Temp. °C: *3.9* Corrected Temp. °C: *3.4*

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



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

December 13, 2023

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

RE: MORNING FEDERAL #0001H

Enclosed are the results of analyses for samples received by the laboratory on 12/07/23 12:15.

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

Received:	12/07/2023	Sampling Date:	12/07/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001H	Sampling Condition:	Cool & Intact
Project Number:	03B147085	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY, CO.		

Sample ID: FS - 7 3' (H236571-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/07/2023	ND	416	104	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	12/07/2023	ND	178	89.0	200	0.297	
DRO >C10-C28*	17.8	10.0	12/07/2023	ND	176	88.2	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	12/07/2023	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134
 Surrogate: 1-Chlorooctadecane 78.1 % 49.1-148

Sample ID: FS - 10 4.5' (H236571-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/07/2023	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/07/2023	Sampling Date:	12/07/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001H	Sampling Condition:	Cool & Intact
Project Number:	03B147085	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY, CO.		

Sample ID: SW - 4 0'-4' (H236571-03)

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	12/07/2023	ND	178	89.0	200	0.297	
DRO >C10-C28*	1900	10.0	12/07/2023	ND	176	88.2	200	3.28	
EXT DRO >C28-C36	561	10.0	12/07/2023	ND					
Surrogate: 1-Chlorooctane	93.3 %	48.2-134							
Surrogate: 1-Chlorooctadecane	106 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/07/2023	Sampling Date:	12/07/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001H	Sampling Condition:	Cool & Intact
Project Number:	03B147085	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY, CO.		

Sample ID: DS - 1 0'-0.25' (H236571-04)

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	12/08/2023	ND	2.02	101	2.00	6.71		
Toluene*	<0.050	0.050	12/08/2023	ND	1.92	96.2	2.00	3.06		
Ethylbenzene*	<0.050	0.050	12/08/2023	ND	1.97	98.6	2.00	2.83		
Total Xylenes*	<0.150	0.150	12/08/2023	ND	5.88	97.9	6.00	2.88		
Total BTEX	<0.300	0.300	12/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	32.0	16.0	12/07/2023	ND	416	104	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	12/12/2023	ND	178	89.0	200	0.297		
DRO >C10-C28*	<10.0	10.0	12/12/2023	ND	176	88.2	200	3.28		
EXT DRO >C28-C36	<10.0	10.0	12/12/2023	ND						

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/07/2023	Sampling Date:	12/07/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001H	Sampling Condition:	Cool & Intact
Project Number:	03B147085	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY, CO.		

Sample ID: DS - 2 0'-0.25' (H236571-05)

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	12/08/2023	ND	2.02	101	2.00	6.71		
Toluene*	<0.050	0.050	12/08/2023	ND	1.92	96.2	2.00	3.06		
Ethylbenzene*	<0.050	0.050	12/08/2023	ND	1.97	98.6	2.00	2.83		
Total Xylenes*	<0.150	0.150	12/08/2023	ND	5.88	97.9	6.00	2.88		
Total BTEX	<0.300	0.300	12/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	48.0	16.0	12/07/2023	ND	416	104	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	12/11/2023	ND	196	98.1	200	0.495		
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	182	91.2	200	0.576		
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/07/2023	Sampling Date:	12/07/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001H	Sampling Condition:	Cool & Intact
Project Number:	03B147085	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY, CO.		

Sample ID: DS - 3 0'-0.25' (H236571-06)

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	12/08/2023	ND	2.02	101	2.00	6.71	
Toluene*	<0.050	0.050	12/08/2023	ND	1.92	96.2	2.00	3.06	
Ethylbenzene*	<0.050	0.050	12/08/2023	ND	1.97	98.6	2.00	2.83	
Total Xylenes*	<0.150	0.150	12/08/2023	ND	5.88	97.9	6.00	2.88	
Total BTEX	<0.300	0.300	12/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	12/07/2023	ND	416	104	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	12/11/2023	ND	196	98.1	200	0.495	
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	182	91.2	200	0.576	
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/07/2023	Sampling Date:	12/07/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001H	Sampling Condition:	Cool & Intact
Project Number:	03B147085	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY, CO.		

Sample ID: DS - 4 0'-0.25' (H236571-07)

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	12/08/2023	ND	2.02	101	2.00	6.71	
Toluene*	<0.050	0.050	12/08/2023	ND	1.92	96.2	2.00	3.06	
Ethylbenzene*	<0.050	0.050	12/08/2023	ND	1.97	98.6	2.00	2.83	
Total Xylenes*	<0.150	0.150	12/08/2023	ND	5.88	97.9	6.00	2.88	
Total BTEX	<0.300	0.300	12/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	12/07/2023	ND	416	104	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	12/08/2023	ND	196	98.1	200	0.495	
DRO >C10-C28*	<10.0	10.0	12/08/2023	ND	182	91.2	200	0.576	
EXT DRO >C28-C36	<10.0	10.0	12/08/2023	ND					

Surrogate: 1-Chlorooctane 56.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 50.1 % 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
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/07/2023	Sampling Date:	12/07/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001H	Sampling Condition:	Cool & Intact
Project Number:	03B147085	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY, CO.		

Sample ID: DS - 5 0'-0.25' (H236571-08)

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	12/08/2023	ND	2.02	101	2.00	6.71		
Toluene*	<0.050	0.050	12/08/2023	ND	1.92	96.2	2.00	3.06		
Ethylbenzene*	<0.050	0.050	12/08/2023	ND	1.97	98.6	2.00	2.83		
Total Xylenes*	<0.150	0.150	12/08/2023	ND	5.88	97.9	6.00	2.88		
Total BTEX	<0.300	0.300	12/08/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	32.0	16.0	12/07/2023	ND	416	104	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	12/08/2023	ND	196	98.1	200	0.495		
DRO >C10-C28*	<10.0	10.0	12/08/2023	ND	182	91.2	200	0.576		
EXT DRO >C28-C36	<10.0	10.0	12/08/2023	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 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
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/07/2023	Sampling Date:	12/07/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001H	Sampling Condition:	Cool & Intact
Project Number:	03B147085	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY, CO.		

Sample ID: DS - 6 0'-0.25' (H236571-09)

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	12/08/2023	ND	2.02	101	2.00	6.71		
Toluene*	<0.050	0.050	12/08/2023	ND	1.92	96.2	2.00	3.06		
Ethylbenzene*	<0.050	0.050	12/08/2023	ND	1.97	98.6	2.00	2.83		
Total Xylenes*	<0.150	0.150	12/08/2023	ND	5.88	97.9	6.00	2.88		
Total BTEX	<0.300	0.300	12/08/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/08/2023	ND	416	104	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	12/11/2023	ND	196	98.1	200	0.495		
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	182	91.2	200	0.576		
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND						

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 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
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/07/2023	Sampling Date:	12/07/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001H	Sampling Condition:	Cool & Intact
Project Number:	03B147085	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY, CO.		

Sample ID: DS - 7 0'-0.25' (H236571-10)

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	12/08/2023	ND	2.02	101	2.00	6.71		
Toluene*	<0.050	0.050	12/08/2023	ND	1.92	96.2	2.00	3.06		
Ethylbenzene*	<0.050	0.050	12/08/2023	ND	1.97	98.6	2.00	2.83		
Total Xylenes*	<0.150	0.150	12/08/2023	ND	5.88	97.9	6.00	2.88		
Total BTEX	<0.300	0.300	12/08/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/08/2023	ND	416	104	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	12/08/2023	ND	196	98.1	200	0.495		
DRO >C10-C28*	<10.0	10.0	12/08/2023	ND	182	91.2	200	0.576		
EXT DRO >C28-C36	<10.0	10.0	12/08/2023	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/07/2023	Sampling Date:	12/07/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001H	Sampling Condition:	Cool & Intact
Project Number:	03B147085	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY, CO.		

Sample ID: DS - 8 0'-0.25' (H236571-11)

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	12/08/2023	ND	2.02	101	2.00	6.71	
Toluene*	<0.050	0.050	12/08/2023	ND	1.92	96.2	2.00	3.06	
Ethylbenzene*	<0.050	0.050	12/08/2023	ND	1.97	98.6	2.00	2.83	
Total Xylenes*	<0.150	0.150	12/08/2023	ND	5.88	97.9	6.00	2.88	
Total BTEX	<0.300	0.300	12/08/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/08/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/11/2023	ND	196	98.1	200	0.495		
DRO >C10-C28*	<10.0	10.0	12/11/2023	ND	182	91.2	200	0.576		
EXT DRO >C28-C36	<10.0	10.0	12/11/2023	ND						

Surrogate: 1-Chlorooctane 135 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	12/07/2023	Sampling Date:	12/07/2023
Reported:	12/13/2023	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001H	Sampling Condition:	Cool & Intact
Project Number:	03B147085	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY, CO.		

Sample ID: SW - 5 0'-4' (H236571-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/08/2023	ND	416	104	400	0.00	

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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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
Project Manager: Beaux Jennings
Address: 601 N Marland Street, Suite 400
City: Midland **State:** TX **Zip:** 79701
Phone #: 210-219-8858 **Fax #:** 79701
Project #: 638147085 **Project Owner:**
Project Name: Marising Federal #000111
Project Location: Eddy County, NM
Sampler Name: Beaux Jennings
FOR LAB USE ONLY
P.O. #:
Company: Oxy USA Inc.
Attn: Wade Dittrich
Address:
City:
State: **Zip:**
Phone #: 575-390-2828
Fax #:

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX	TPH	Chloride
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
A236571	FS-7	3'	C	1								12/7/23	1120	X	X	X
	FS-10	4.5'	C	1								12/7/23	1122	X	X	X
	SD-14	0-4'	C	1								12/7/23	1125	X	X	X
	DS-1	0-0.25'	G	1								12/7/23	1128	X	X	X
	DS-2											12/7/23	1130	X	X	X
	DS-3											12/7/23	1132	X	X	X
	DS-4											12/7/23	1134	X	X	X
	DS-5											12/7/23	1136	X	X	X
	DS-6											12/7/23	1138	X	X	X
	DS-7											12/7/23	1140	X	X	X

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Relinquished By: [Signature] **Date:** 12/7/23 **Received By:** [Signature] **Date:** 12/7/23

Relinquished By: [Signature] **Date:** 12/15 **Received By:** [Signature] **Date:** 12/15

Delivered By: (Circle One) Observed Temp. °C **3.6** Corrected Temp. °C **Sample Condition:** Cool Intact Yes No **CHECKED BY:** [Signature] (Initials)

Sampler - Ups - Bus - Other: **Thermometer ID #113** **Standard** **Rush** **Bacteria (only) Sample Condition:** Cool Intact Yes No **Observed Temp. °C** **Corrected Temp. °C**

REMARKS:

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



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

January 23, 2024

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

RE: MORNING FEDERAL #0001H

Enclosed are the results of analyses for samples received by the laboratory on 01/18/24 14:57.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	01/18/2024	Sampling Date:	01/18/2024
Reported:	01/23/2024	Sampling Type:	Soil
Project Name:	MORNING FEDERAL #0001H	Sampling Condition:	Cool & Intact
Project Number:	03B1417085	Sample Received By:	Brandi Bautista
Project Location:	OXY - EDDY, CO.		

Sample ID: SW - 4 0-4' (H240222-01)

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	01/19/2024	ND	199	99.6	200	0.794	
DRO >C10-C28*	<10.0	10.0	01/19/2024	ND	179	89.5	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	01/19/2024	ND					
<hr/>									
Surrogate: 1-Chlorooctane	72.6 %	48.2-134							
Surrogate: 1-Chlorooctadecane	77.6 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



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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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Celey D. Keene, Lab Director/Quality Manager

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 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

QUESTIONS

Action 317439

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 317439
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2317843434
Incident Name	NAPP2317843434 MORNING FEDERAL #0001H @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

Location of Release Source

Please answer all the questions in this group.

Site Name	MORNING FEDERAL #0001H
Date Release Discovered	06/11/2023
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	Cause: Equipment Failure Pipeline (Any) Crude Oil Released: 28 BBL Recovered: 26 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 4 BBL Recovered: 2 BBL Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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.

District I
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 1000 Rio Brazos Rd., Aztec, NM 87410
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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

QUESTIONS, Page 2

Action 317439

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 317439
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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.
<i>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.</i>	

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: 02/26/2024
--	---

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

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

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1000 Rio Brazos Rd., Aztec, NM 87410
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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

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 317439
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization
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.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
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 100 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (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 1 and 100 (ft.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 500 and 1000 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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.

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)	2400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2461
GRO+DRO (EPA SW-846 Method 8015M)	1900
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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.

On what estimated date will the remediation commence	06/11/2023
On what date will (or did) the final sampling or liner inspection occur	01/18/2024
On what date will (or was) the remediation complete(d)	01/18/2024
What is the estimated surface area (in square feet) that will be reclaimed	3000
What is the estimated volume (in cubic yards) that will be reclaimed	220
What is the estimated surface area (in square feet) that will be remediated	3000
What is the estimated volume (in cubic yards) that will be remediated	220

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.

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.

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QUESTIONS, Page 4

Action 317439

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 317439
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

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.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(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)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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 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: 02/26/2024
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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.

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QUESTIONS, Page 5

Action 317439

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 317439
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 317439

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 317439
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	303835
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/18/2024
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	3000
What was the total volume (cubic yards) remediated	220
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	3000
What was the total volume (in cubic yards) reclaimed	220
Summarize any additional remediation activities not included by answers (above)	None

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

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

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 02/26/2024
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QUESTIONS, Page 7

Action 317439

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 317439
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 317439

CONDITIONS

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	Action Number: 317439
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2317843434 MORNING FEDERAL #0001H, thank you. This Remediation Closure Report is approved.	4/24/2024