



CLOSURE REPORT

Property:

Right Hand Canyon 35 1

**Eddy County, New Mexico
32.431998° N, 104.473860° W
NMOCD Incident ID: nKMW1110138117
RP No.: 2RP-728
API No.: 30-015-26126**

October 17, 2022
Ensolum Project No. 03B1417038

Prepared for:

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

Prepared by:


Beaux Jennings
Senior Project Manager

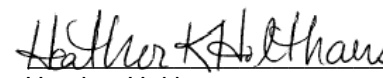

Heather Holthaus
Senior Project Manager



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CLOSURE REPORT

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32.431998° N, 104.473860° W
NMOCD Incident ID: nKMW1110138117
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Ensolum Project No. 03B1417038

1.0 INTRODUCTION

1.1 Executive Summary

- On April 30, 2010, a release of crude oil and produced water was reported from a steel gas supply line failure at the Right Hand Canyon 35 1, hereinafter referred to as the "Site". Approximately 15 barrels (bbls) of crude oil and five bbls of produced water were released to the ground surface affecting an area approximately 50 feet by 40 feet and an area approximately 160 feet by 10 feet. Five (5) bbls were recovered. The line was repaired, and initial response actions were conducted by Talon LPE, on behalf of Oxy USA Inc. (Oxy). The initial response actions stated that the release area was excavated to a depth of half a foot (0.5) to one and a half (1.5) feet. Bedrock was encountered and limited the depth of the excavation during initial response actions. During initial response actions, excavated material was transported to Lea Land for disposal and clean material was brought in as backfill. Based on historical correspondence on May 18, 2015 from the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD), the site was not granted closure due to contamination left in place.
- On April 11, 2022, Ensolum, LLC (Ensolum) arrived on-Site and collected 29 pothole composite soil samples from within the release area, the pothole soil samples were collected from 15 different sample locations (PH-1 through PH-15) at depths ranging from 0.5 to 3.5 feet below ground surface (bgs).
- On April 13, 2022, subsequent to excavation based on laboratory analytical data, Ensolum arrived on-Site and collected five composite soil samples from the excavation floor (FS-1 through FS-5) at a depth of 0.5-foot bgs.
- On April 26, 2022, subsequent to additional excavation based on laboratory analytical data, Ensolum arrived on-Site and collected five composite soil samples from the excavation floor (FS-1 through FS-5) at depths ranging from two feet bgs to four feet bgs, and one additional pothole composite soil sample (PH-9) was collected at a depth of two and a half feet bgs. Additionally, Ensolum collected eight composite soil samples from the excavation sidewalls (N-SW-1, N-SW-2, E-SW-1, E-SW-2, S-SW-1, S-SW-2, W-SW-1 and W-SW-2) at depths ranging from 0-2 to 0-4 feet bgs.

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- Based on laboratory analytical data, further excavation was required at floor sample locations FS-1, FS-2, FS-4 and FS-5 and side wall sample locations N-SW-1, N-SW-2, E-SW-1, E-SW-2, S-SW-1, S-SW-2, W-SW-1 and W-SW-2. Additional samples were collected on June 28, 2022, August 9, 2022 and September 2, 2022, subsequent to additional excavation activities. Final confirmation composite soil samples from the excavation floor were collected at depths ranging from two to four feet bgs and final confirmation composite soil samples from the side walls were collected from depths ranging from 0-2 to 0-4 feet 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 EMNRD OCD Closure Criteria for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMAC 19.15.29 Releases as guidance.
- The final excavation areas measured approximately 25 feet by 15 feet (FS-1, FS-2 and FS-3), 8 feet by 8 feet (FS-4) and 15 feet by 15 feet (FS-5). The excavation depths ranged from two feet bgs in the areas of FS-1 through FS-4 to four feet bgs in the area of FS-5.
- A total of 16 composite soil samples from five locations from the excavation floor (FS-1 through FS-5), 21 composite soil samples from eight (8) locations from the excavation sidewalls (N-SW-1, N-SW-2, E-SW-1, E-SW-2, S-SW-1, S-SW-2, W-SW-1 and W-SW-2), and 30 composite soil samples from 15 pothole locations (PH-1 through PH-15) were collected.
- Based on the laboratory analytical results, the final confirmation composite soil samples collected from the potholes, excavation floor and sidewalls did not exhibit benzene, total benzene, toluene, ethylbenzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO) and/or motor oil range organics (MRO) or chloride concentrations above the applicable NMOCD Closure Criteria. Subsequent to the results of the confirmation soil sampling, the identified impacted 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.

1.2 Site Description & Background

Operator:	Oxy USA Inc. (Oxy)
Site Name:	Right Hand Canyon 35 1
Location:	32.431998° N, 104.473860° W Eddy County, New Mexico
Property:	Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

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On April 30, 2010, a release of crude oil and produced water was reported from a steel gas supply line failure at the Site. Approximately 15 bbls of crude oil and five bbls of produced water were released to the ground surface affecting an area approximately 50 feet by 40 feet and an area approximately 160 feet by 10 feet. Five bbls were recovered. The line was repaired, and initial response actions were conducted by Talon LPE, on behalf of Oxy. The initial response actions stated that the release area was excavated to a depth of half a foot (0.5) to one and a half (1.5) feet. Bedrock was encountered and limited the depth of the excavation during initial response actions. During initial response actions, excavated material was transported to Lea Land for disposal and clean material was brought in as backfill.

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 not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or any other significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet from an occupied permanent residence, school, hospital, institution, or church.
- According to the OSE WRSS database there are no private, domestic freshwater wells used by less than five (5) households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database there are no freshwater wells identified within 1,000 feet of the Site as declared in the previous bullet.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3.
- The Site is not located within 300 feet of a classified wetland; however, a Riparian area is located approximately 250 feet to the west of the Site, followed by a Riverine wetland approximately 600 feet to the northwest of the Site.
- 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.

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- Based on the Karst Occurrence Potential (.kmz) provided by the BLM, the Site is located within an unstable area, also referred to as high karst.
- The Site is noted to be located within an area of minimal flood hazard.

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

Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 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 April 30, 2010, a release of crude oil and produced water was reported from a steel gas supply line failure at the Site. Approximately 15 bbls of crude oil and five bbls of produced water were released to the ground surface affecting an area approximately 50 feet by 40 feet and an area approximately 160 feet by 10 feet. Five bbls were recovered. The line was repaired, and initial response actions were conducted by Talon LPE, on behalf of Oxy. The initial response actions stated that the release area was excavated to a depth of half a foot (0.5) to one and a half (1.5) feet. Bedrock was encountered and limited the depth of the excavation during initial response actions. During initial response actions, excavated material was transported to Lea Land for disposal and clean material was brought in as backfill.

Ensolum was contacted by Oxy with the purpose of sampling the area of the release to determine if further excavation was required. On April 11, 2022, Ensolum arrived on-Site and collected 29 pothole soil samples from within the release area, the pothole composite soil samples were collected from 15 different sample locations (PH-1 through PH-15) at depths ranging from 0.5 to 3.5 feet bgs.

On April 13, 2022, subsequent to excavation based on laboratory analytical data, Ensolum arrived on-Site and collected five composite soil samples from the excavation floor (FS-1 through FS-5) at a depth of 0.5 foot bgs.

On April 26, 2022, subsequent to additional excavation based on laboratory analytical data, Ensolum arrived on-Site and collected five composite soil samples from the excavation floor (FS-1 through FS-5) at depths ranging from two feet bgs to four feet bgs, and one additional pothole composite soil sample (PH-9) was collected at a depth of two and a half feet bgs. Additionally, Ensolum collected eight composite soil samples from the excavation sidewalls (N-SW-1, N-SW-2, E-SW-1, E-SW-2, S-SW-1, S-SW-2, W-SW-1 and W-SW-2) at depths ranging from 0-2 to 0-4 feet bgs.

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Based on laboratory analytical data, further excavation was required at floor sample locations FS-1, FS-2, FS-4 and FS-5 and side wall sample locations N-SW-1, N-SW-2, E-SW-1, E-SW-2, S-SW-1, S-SW-2, W-SW-1 and W-SW-2. Additional samples were collected on June 28, 2022, August 9, 2022 and September 2, 2022, subsequent to additional excavation activities. Final confirmation composite soil samples from the excavation floor were collected at depths ranging from two to four feet bgs and final confirmation composite soil samples from the side walls were collected from depths ranging from 0-2 to 0-4 feet bgs.

The confirmation soil samples were analyzed for BTEX, TPH and chloride in accordance with NMOCD Closure Criteria for Soils Impacted by a Release (NMOCD Closure Criteria).

The final excavation areas measured approximately 25 feet by 15 feet (FS-1, FS-2 and FS-3), 8 feet by 8 feet (FS-4) and 15 feet by 15 feet (FS-5). The excavation depths ranged from two feet bgs in the areas of FS-1 through FS-4 to four feet bgs in the area of FS-5. The excavated impacted soils were removed and taken off-Site for proper disposal.

The lithology encountered during the completion of sampling activities consisted primarily of a well graded very fine brown and tan sand.

Figure 3 identifies approximate composite 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 collection of 16 composite soil samples from five locations from the excavation floor (FS-1 through FS-5), 21 composite soil samples from eight locations from the excavation sidewalls (N-SW-1, N-SW-2, E-SW-1, E-SW-2, S-SW-1, S-SW-2, W-SW-1 and W-SW-2), and 30 soil samples from 15 pothole locations (PH-1 through PH-15) were collected.

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 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-CI 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 BTEX, TPH GRO/DRO/MRO, and chloride concentrations associated with the composite soil samples collected from the potholes (PH-1 through PH-15), the excavation floor (FS-1 through FS-5), and the excavation sidewalls (N-SW-1, N-SW-2, E-SW-1, E-SW-2, S-SW-1, S-SW-2, W-SW-1 and W-SW-2) to the applicable NMOCD Closure Criteria.

- Laboratory analytical results indicate benzene concentrations for the composite soil samples are below the laboratory sample detection limits (SDLs), which are below the applicable NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).

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- Laboratory analytical results indicate that total BTEX concentrations for the composite soil samples are below the laboratory SDLs, which are below the applicable NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the composite pothole soil samples (PH-9 at 2 and PH-10 at 0.5), excavation floor samples (FS-1 at 0.5 and 2, FS-2 at 0.5 and 2, FS-3 at 0.5, FS-4 at 0.5 and 2, and FS-5 at 0.5 and 4), and excavation sidewall samples (N-SW-1 at 0-4, N-SW-2 at 0-2, E-SW-1 at 0-4, E-SW-2 at 0-2, S-SW-1 at 0-4, S-SW-2 at 0-2, W-SW-1 at 0-4, and W-SW-2 at 0-2) ranged from 114 mg/kg to 9,406 mg/kg, which exceed the applicable NMOCD Closure Criteria of 100 mg/kg from ≤50 feet. The soils in these locations were subsequently treated or removed and taken off-Site for proper disposal.
- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the final composite soil samples are below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 100 mg/kg from ≤50 feet.
- Laboratory analytical results indicate chloride concentrations for the composite soil samples exhibited chloride concentrations ranging from below the laboratory SDLs to 400 mg/kg, which are below the applicable NMOCD Closure Criteria of 600 mg/kg from ≤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 final confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal. The excavated area was backfilled with clean fill material, and then contoured to the original surrounding grade.

8.0 FINDINGS AND RECOMMENDATION

- On April 30, 2010, a release of crude oil and produced water was reported from a steel gas supply line failure at the Site. Approximately 15 bbls of crude oil and five bbls of produced water were released to the ground surface affecting an area approximately 50 feet by 40 feet and an area approximately 160 feet by 10 feet. Five bbls were recovered. The line was repaired, and initial response actions were conducted by Talon LPE, on behalf of Oxy. The initial response actions stated that the release area was excavated to a depth of half a foot (0.5) to one and a half (1.5) feet. Bedrock was encountered and limited the depth of the excavation during initial response actions. During initial response actions, excavated material was transported to Lea Land for disposal and clean material was brought in as backfill. Based on historical correspondence on May 18, 2015 from the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD), the site was not granted closure due to contamination left in place.
- On April 11, 2022, Ensolum arrived on-Site and collected 29 pothole soil samples from within the release area, the pothole composite soil samples were collected from 15 different sample locations (PH-1 through PH-15) at depths ranging from 0.5 to 3.5 feet bgs.
- On April 13, 2022, subsequent to excavation based on laboratory analytical data, Ensolum arrived on-Site and collected five composite soil samples from the excavation floor (FS-1 through FS-5) at a depth of 0.5 foot bgs.

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- On April 26, 2022, subsequent to additional excavation based on laboratory analytical data, Ensolum arrived on-Site and collected five composite soil samples from the excavation floor (FS-1 through FS-5) at depths ranging from two feet bgs to four feet bgs, and one additional pothole composite soil sample (PH-9) was collected at a depth of two and a half feet bgs. Additionally, Ensolum collected eight composite soil samples from the excavation sidewalls (N-SW-1, N-SW-2, E-SW-1, E-SW-2, S-SW-1, S-SW-2, W-SW-1 and W-SW-2) at depths ranging from 0-2 to 0-4 feet bgs.
- Based on laboratory analytical data, further excavation was required at floor sample locations FS-1, FS-2, FS-4 and FS-5 and side wall sample locations N-SW-1, N-SW-2, E-SW-1, E-SW-2, S-SW-1, S-SW-2, W-SW-1 and W-SW-2. Additional samples were collected on June 28, 2022, August 9, 2022 and September 2, 2022, subsequent to additional excavation activities. Final composite soil samples from the excavation floor were collected at depths ranging from two to four feet bgs and final composite soil samples from the side walls were collected from depths ranging from 0-2 to 0-4 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 for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- The final excavation areas measured approximately 25 feet by 15 feet (FS-1, FS-2 and FS-3), 8 feet by 8 feet (FS-4) and 15 feet by 15 feet (FS-5). The excavation depths ranged from two feet bgs in the areas of FS-1 through FS-4 to four feet bgs in the area of FS-5.
- A total of 16 composite soil samples from five locations from the excavation floor (FS-1 through FS-5), 21 composite soil samples from eight (8) locations from the excavation sidewalls (N-SW-1, N-SW-2, E-SW-1, E-SW-2, S-SW-1, S-SW-2, W-SW-1 and W-SW-2), and 30 composite soil samples from 15 pothole locations (PH-1 through PH-15) were collected.
- Based on the laboratory analytical results, the final composite soil samples collected from the potholes, excavation floor and sidewalls did not exhibit benzene, total BTEX, TPH GRO/DRO/MRO or chloride concentrations above the applicable NMOCD Closure Criteria. Subsequent to the results of the confirmation soil sampling, the identified impacted 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.

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.

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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.

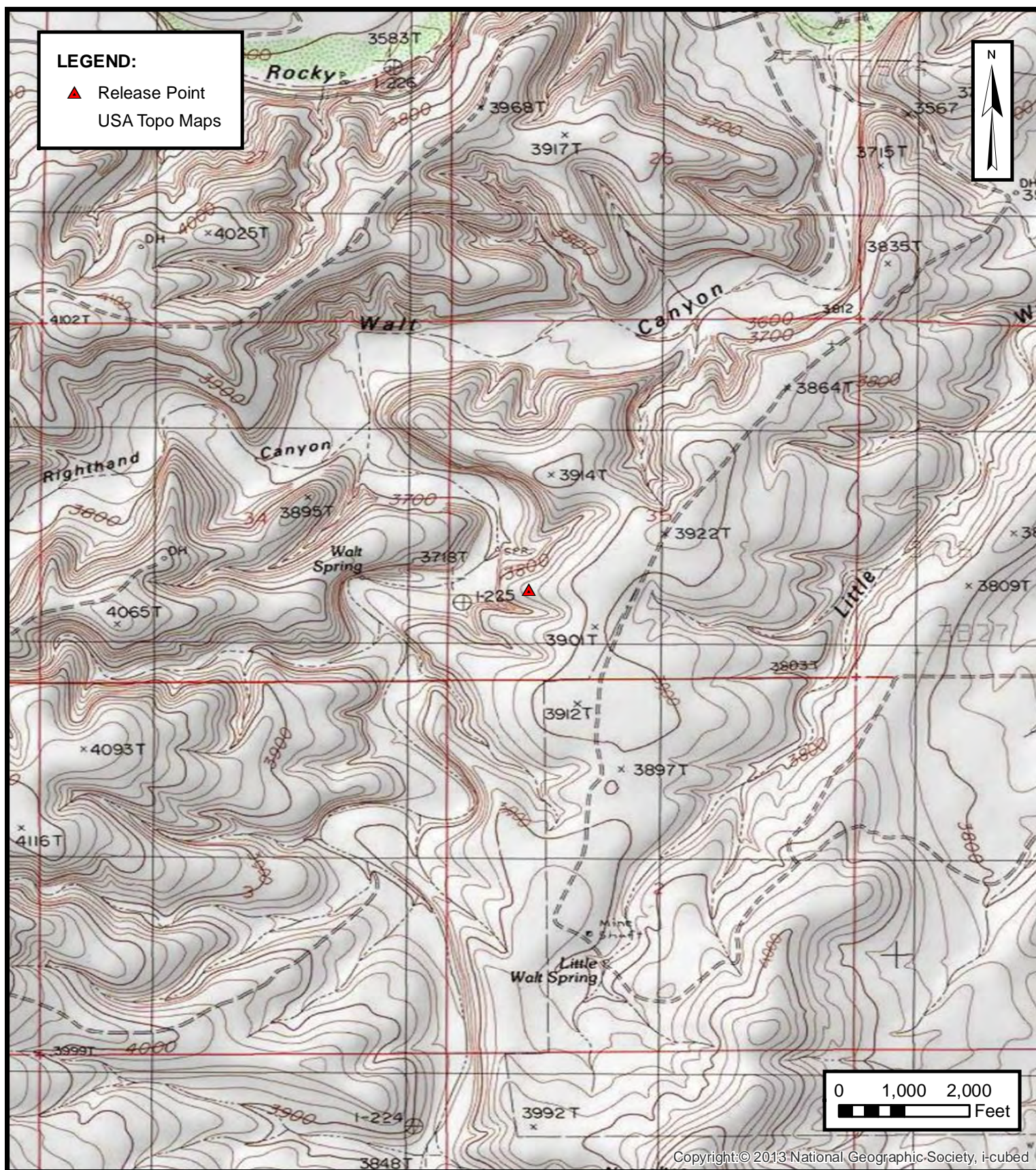
9.3 Reliance

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 & Hydrogeologic Consultants

TOPOGRAPHIC MAP

OXY USA INC.
RIGHT HAND CANYON 35 1
Eddy County, New Mexico
32.431998° N, 104.473860° W

PROJECT NUMBER: 03B1417038

FIGURE

1



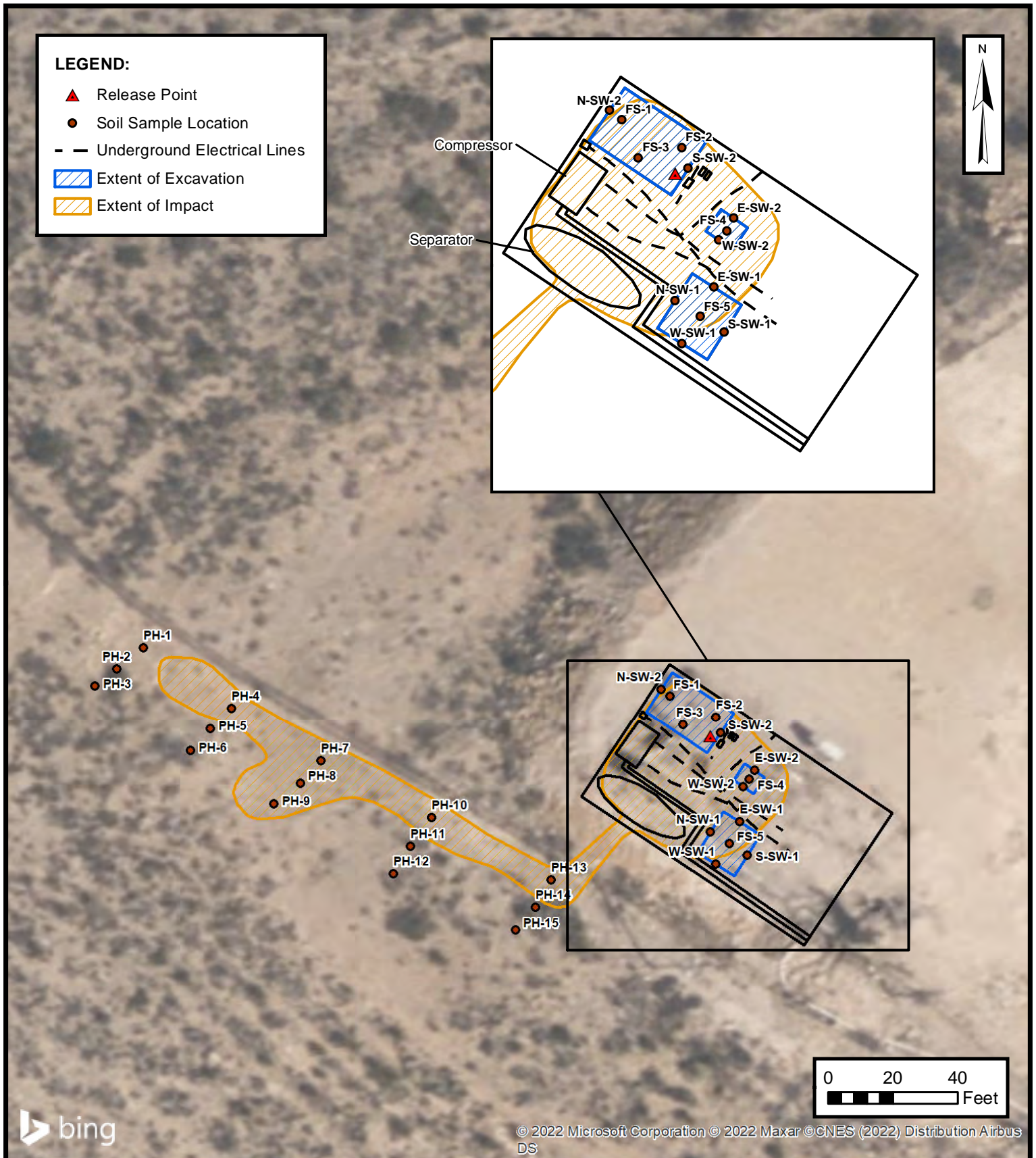
SITE VICINITY MAP

OXY USA INC.
RIGHT HAND CANYON 35 1
Eddy County, New Mexico
32.431998° N, 104.473860° W

PROJECT NUMBER: 03B1417038

FIGURE

2

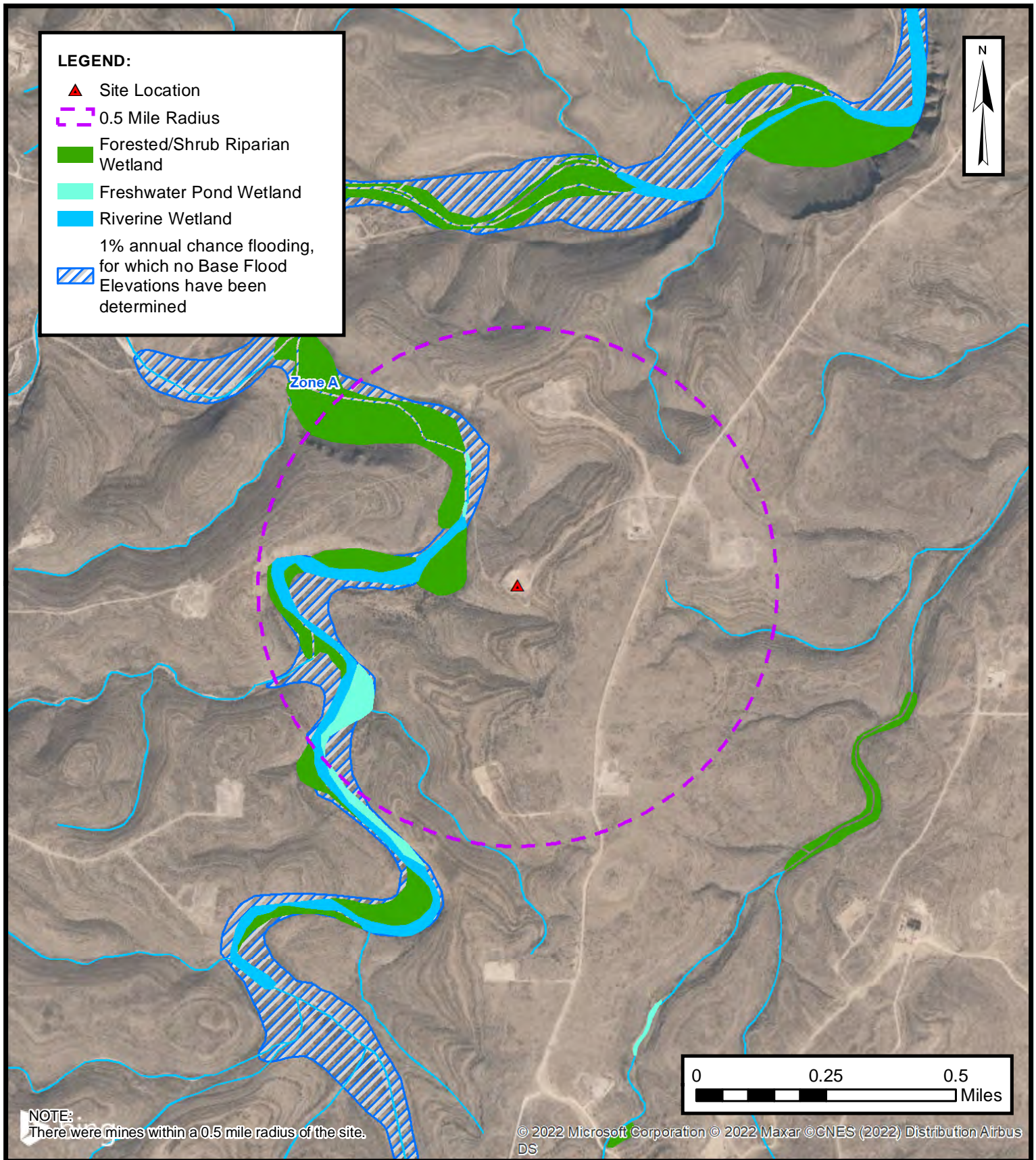
**SITE MAP**

OXY USA INC.
 RIGHT HAND CANYON 35 1
 Eddy County, New Mexico
 32.431998° N, 104.473860° W

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FIGURE**3**

ENSOLUM
 Environmental & Hydrogeologic Consultants

**CLOSURE CRITERIA MAP**

OXY USA INC.
 RIGHT HAND CANYON 35 1
 Eddy County, New Mexico
 32.431998° N, 104.47386° W

PROJECT NUMBER: 03B1417038

FIGURE**4**

ENSOLUM
 Environmental, Engineering and
 Hydrogeologic Consultants



APPENDIX B

Supporting Documentation

Beaux Jennings

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Tuesday, April 5, 2022 8:56 AM
To: Beaux Jennings
Cc: Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; Velez, Nelson, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] Right Hand Canyon 35 1 (2RP-728)

Beaux,

Thank you for the notification. Please 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.

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



From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Friday, April 1, 2022 2:59 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>
Subject: Fw: [EXTERNAL] Right Hand Canyon 35 1 (2RP-728)

From: Beaux Jennings <bjennings@ensolum.com>
Sent: Friday, April 1, 2022 2:09 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Subject: [EXTERNAL] Right Hand Canyon 35 1 (2RP-728)

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 provided notification for characterization sampling activities that will be conducted at the Right Hand Canyon 35 1 (2RP-728). The characterization samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



Beaux Jennings

Senior Project Manager

210-219-8858

Ensolum, LLC

in f 

Beaux Jennings

From: Beaux Jennings
Sent: Thursday, August 4, 2022 9:17 PM
To: OCD.Enviro@state.nm.us
Subject: Right Hand Canyon 35 1 (2RP-728)

Good Afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Right Hand Canyon 35 1 (2RP-728) on Tuesday, August 9th at 9am. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



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

Beaux Jennings

From: Beaux Jennings
Sent: Tuesday, August 30, 2022 4:19 PM
To: OCD.Enviro@state.nm.us
Subject: Right Hand Canyon 35 1 (2RP-728)

Good Afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Right Hand Canyon 35 1 (2RP-728) on Friday, September 2nd at 9am. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



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

State of New Mexico
Energy Minerals and Natural ResourcesOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505French Dr., Hobbs, NM 88240
W. Grand Avenue, Artesia, NM 88210
00 Rio Brazos Road, Aztec, NM 87410
1220 S. St. Francis Dr., Santa Fe, NM 87505

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company OXY USA	Contact Kelton Beaird
Address 1502 W. Commerce Carlsbad, NM 88220	Telephone No. (O) 575-628-4100
Facility Name Righthand Canyon 35-1	Facility Type Gas Well
Surface Owner BLM	Mineral Owner BLM
Lease No. 3001526126	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	35	21S	24E					EDDY

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Oil/ Produced Water	Volume of Release 15 oil, 5 water (barrels)	Volume Recovered 5 bbls.
Source of Release Gas line from Horizontal Vessel	Date and Hour of Occurrence	Date and Hour of Discovery 4-30-10 @ 10 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour See above	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.

Stainless steel gas supply line broke. The vessel failed to dump causing the vessel to fill with oil.

Describe Area Affected and Cleanup Action Taken.*

Due to hard rock the surface material was removed and replaced with clean-like material.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature:

Printed Name: Kelton Beaird

Title: HES Specialist

E-mail Address: kelton_beaird@oxy.com

Date: 12-21-10

OIL CONSERVATION DIVISION

Approved by District Supervisor:

Signed By: *Mike Beaird*

Approval Date: 4/11/11

Expiration Date:

Conditions of Approval:

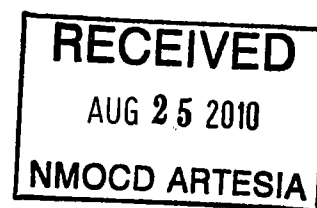
Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN:

Attached ☐

* Attach Additional Sheets If Necessary

5/11/11

2RP-728



Remediation Plan

Righthand Canyon 35-1

UL-L, Sec. 35, T21S R24E

Release Date: 4-30-2010

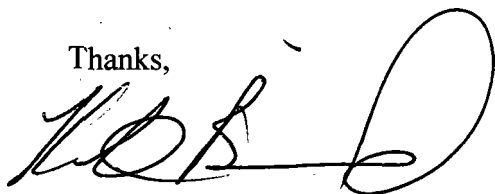
Submitted by:
Kelton Beaird
HES Spec.
Oxy Mid-Con SW

Proposal

Talon LPE sampled on 6-4-10 and again on 6-16-10. Hard Rock was met during sampling, therefore limited the depth of delineation. Lab Analytical is attached to this document.

Oxy proposes to perform a cosmetic clean-up on the location by removing surface contamination and placing clean material back in its place. Due to low amounts of chloride contamination <250 ppm oxy proposes to monitor the affected area in the pasture for growth.

Thanks,

A handwritten signature in black ink, appearing to read 'K. Beaird', with a large, stylized loop at the end.

Kelton Beaird
HES Spec.
Oxy Mid-Con SW
Carlsbad, NM



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

ANALYTICAL RESULTS FOR
TALON/LPE
ATTN: KYLE SUMMERS
408 TEXAS ST.
ARTESIA, NM 88210
FAX TO: (575) 746-8905

Receiving Date: 06/16/10
Reporting Date: 06/23/10
Project Owner: OXY
Project Name: RHC
Project Location: EDDY COUNTY, NM

Sampling Date: 06/16/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 4.5°C
Sample Received By: JH
Analyzed By: AB/CK/ZL/HM

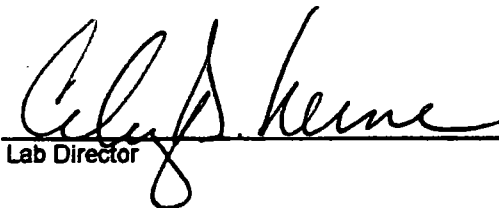
LAB NO.	SAMPLE ID	GRO (C ₈ -C ₁₀) (mg/kg)	DRO (C ₁₀ -C ₂₈) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE:		06/19/10	06/19/10	06/16/10	06/16/10	06/16/10	06/16/10	06/18/10
H20137-1	SP-1 1.5'	79.9	1,470	<0.050	<0.050	0.124	1.64	16
H20137-2**	SP-4 0.0'	639	11,700	<0.050	<0.050	0.522	9.06	48
H20137-3	SP-4 0.5'	32.0	970	<0.050	<0.050	<0.050	0.381	112
Quality Control		459	490	0.009	0.009	0.009	0.027	500
True Value QC		500	500	0.010	0.010	0.010	0.030	500
% Recovery		91.8	98.0	90.0	90.0	90.0	90.0	100
Relative Percent Difference		0.6	2.2	4.3	1.7	4.2	4.1	3.8

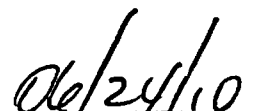
METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021; Cl- Std. Methods 4500-Cl-B

*Analysis performed on a 1:4 w:v aqueous extract. Reported on wet weight.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES. Not accredited for GRO/DRO and Chloride.

**One or more TPH surrogates outside historical limits due to matrix interference.


Lab Director


Date

H20137 TBCL TALON

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



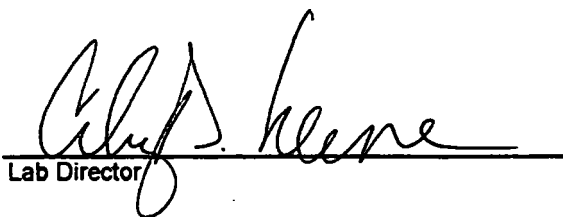
PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
TALON/LPEATTN: KYLE SUMMERS
408 TEXAS ST.
ARTESIA, NM 88210
FAX TO: (575) 746-8905Receiving Date: 06/07/10
Reporting Date: 06/10/10
Project Owner: OXY (RHC)
Project Name: NOT GIVEN
Project Location: EDDY COUNTY, NMSampling Date: 06/04/10
Sample Type: SOIL
Sample Condition: INTACT @ 13°C
Sample Received By: JH
Analyzed By: AB/ZL

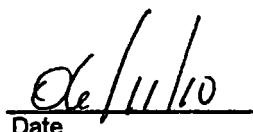
LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (>C ₁₀ -C ₂₈) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE:		06/09/10	06/09/10	06/08/10	06/08/10	06/08/10	06/08/10	06/08/10
H20045-1	SP-1	720	22,000	<0.050	0.609	0.514	7.71	32
H20045-2	SP-3	3,760	21,400	<0.050	5.49	3.85	57.3	16
H20045-3	SP-5	1,070	19,400	<0.050	0.728	0.922	9.38	16
Quality Control		456	405	0.021	0.021	0.022	0.065	500
True Value QC		500	500	0.020	0.020	0.020	0.060	500
% Recovery		91.2	81.0	105	105	110	108	100
Relative Percent Difference		0.1	0.6	<1.0	1.8	1.7	3.0	6.9

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021; Cl-: Std. Methods 4500-Cl-B

*Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE,
AND TOTAL XYLENES. Not accredited for GRO/DRO and Chloride.


Lab Director



Date

H20045 TBCL TALON

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

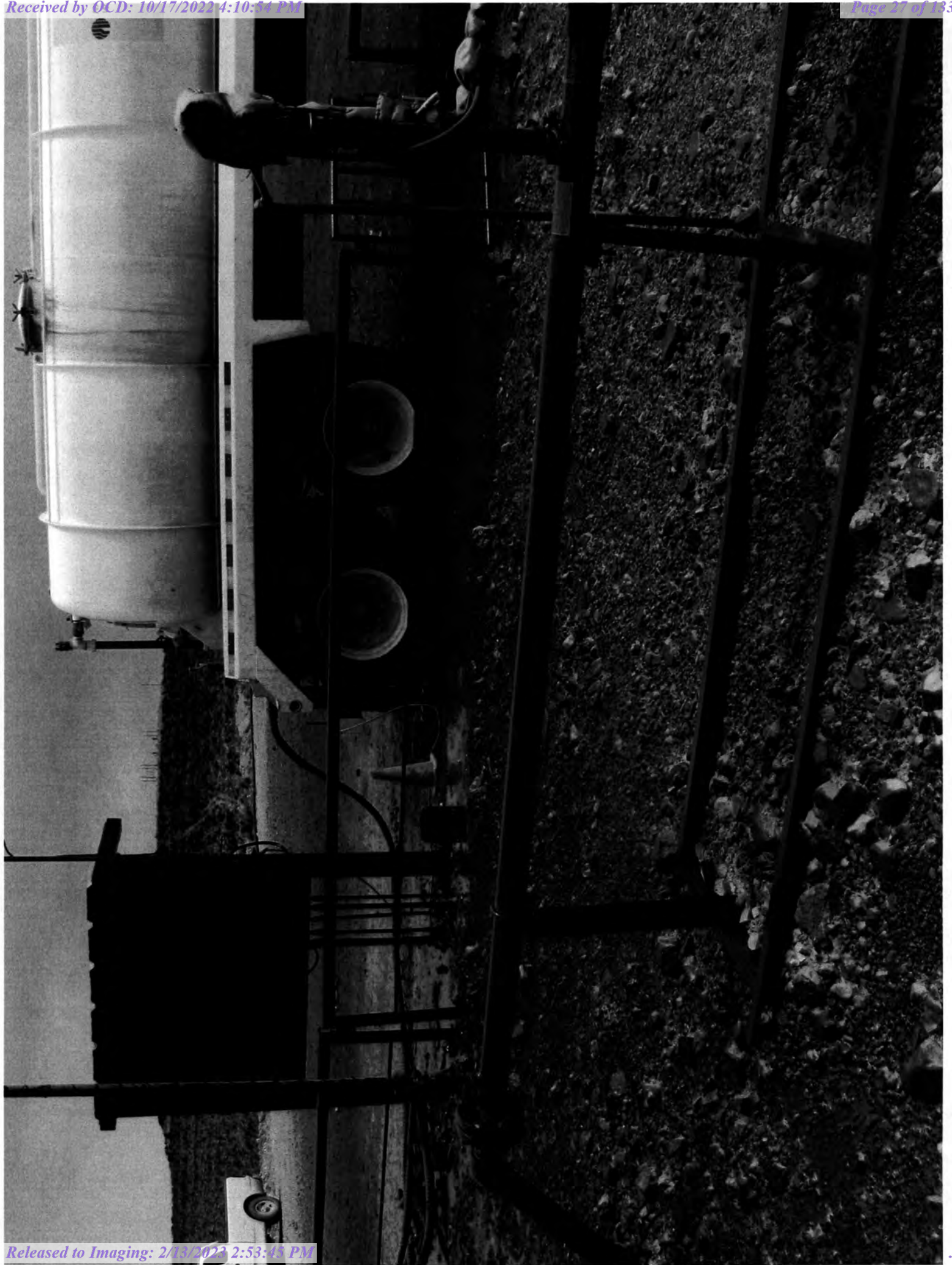


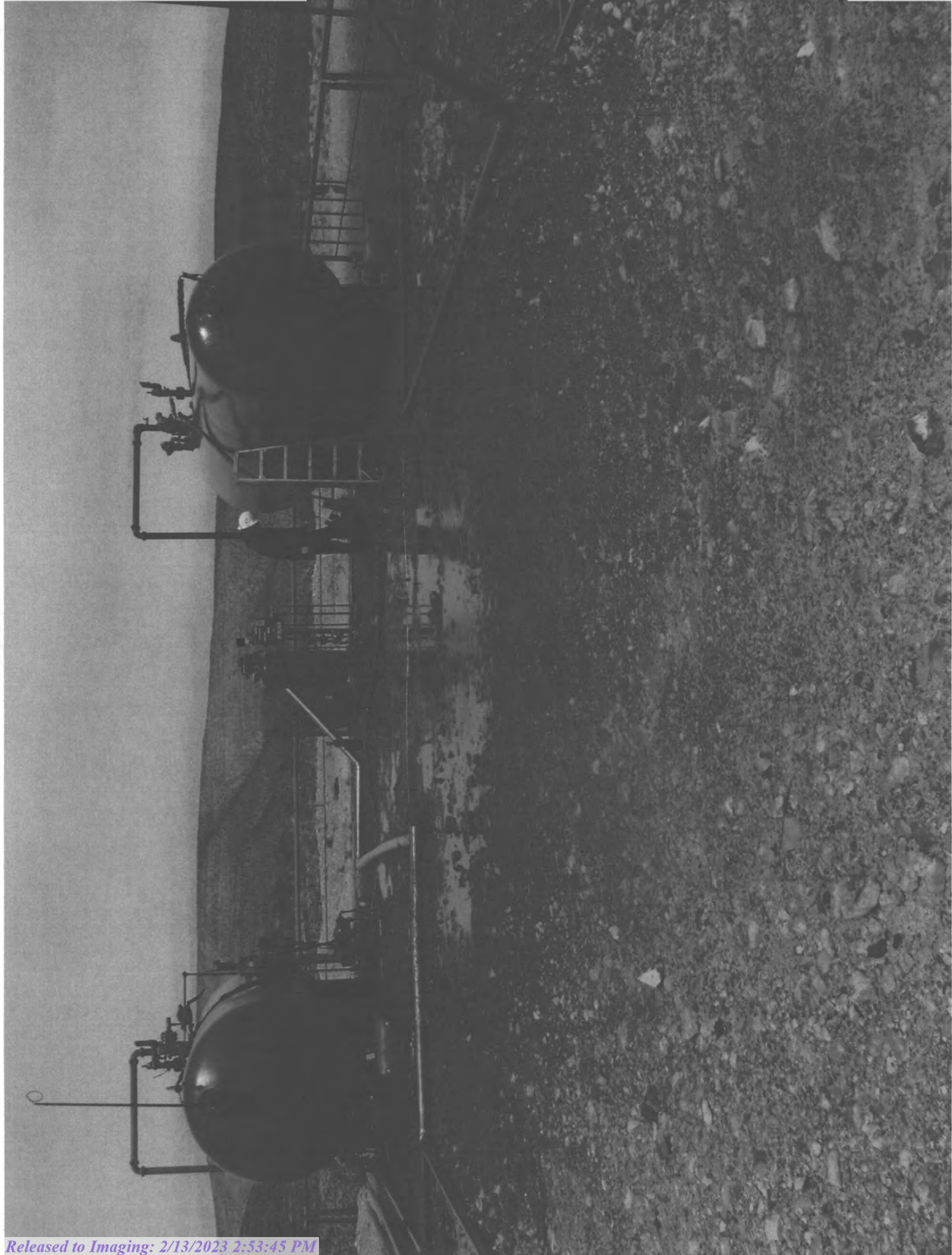
Project Correspondence Sheet

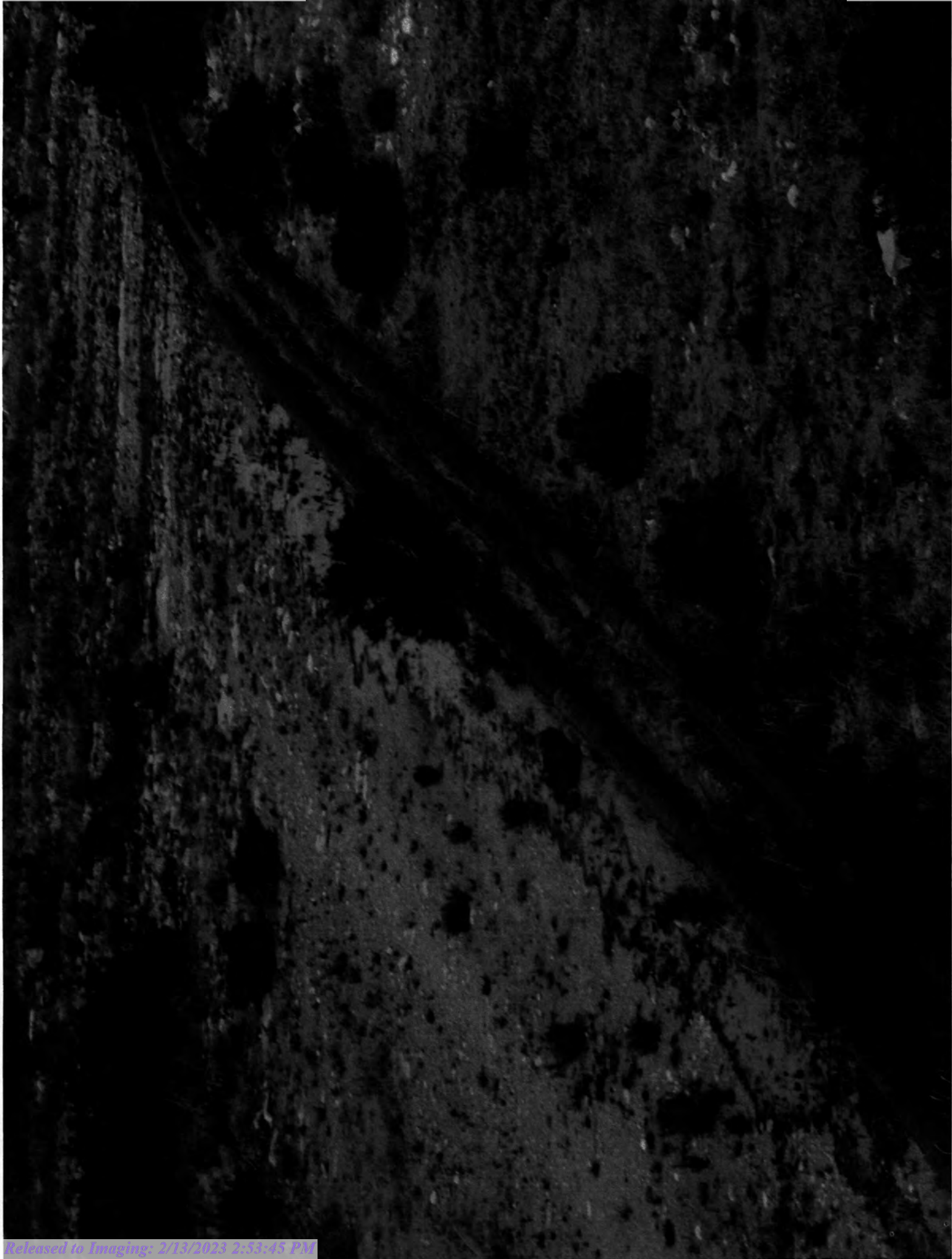
☐ Field ☐ Office ☐ Reimbursement ☐ Proposal
☐ OK ☐ NM ☐ TX ☐ Other

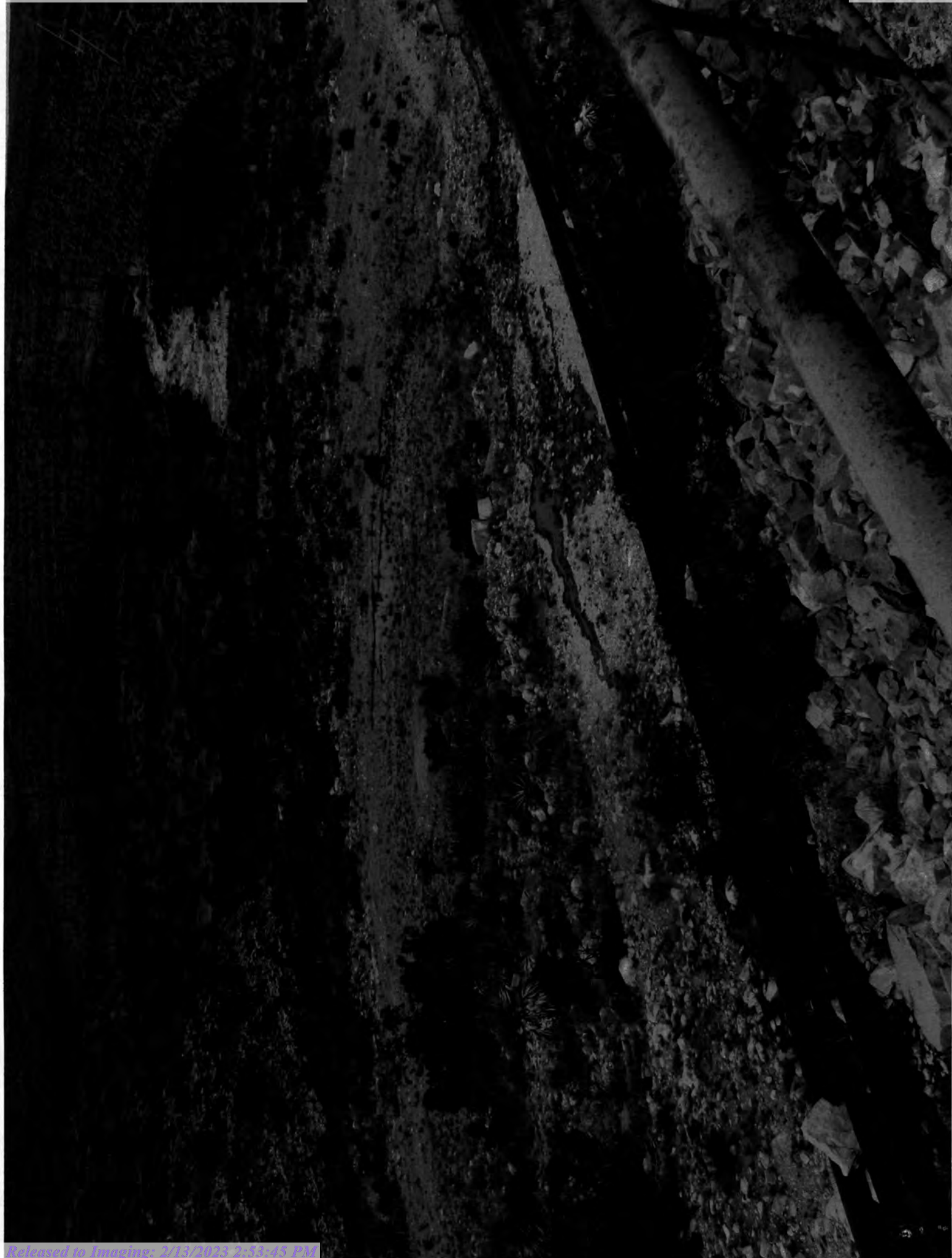
AMARILLO • AUSTIN • MIDLAND • NEW BRAUNFELS • TULSA, OK • HOBBS, NM

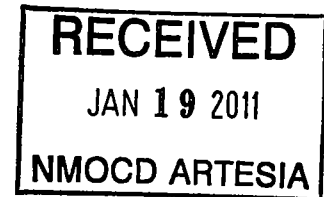
Date:	Time:	Project Manager:
Project Number:		
Project Name: <i>Right Hand Canyon 35-2</i>		
Topic:		
Notes:		
<p>The diagram is a hand-drawn sketch on a grid background. It depicts a 'Flow Path' indicated by a line with arrows pointing towards the top right. Along this path, there are four points labeled SP-3, SP-5, SP-4, and SP-2. SP-3 is on the left, SP-5 is at the top, SP-4 is in the middle, and SP-2 is at the bottom. To the right of the flow path, there is a large rectangular area labeled 'Spill Area'. Inside this area, there are two smaller rectangular boxes, each labeled 'Separator'. A point labeled 'Gate' is located at the bottom right corner of the 'Spill Area'. A line connects SP-2 to the bottom left corner of the 'Spill Area'.</p>		
Document must be filed in Project File	Prepared by:	Page ____ of ____











Closing Report

Righthand Canyon 35-1

Release Date: 4-30-10

API No. 3001526126

Eddy County, NM

**Submitted by
Kelton Beaird
HES Specialist
Oxy MidCon SW
Carlsbad, NM**

Table of Contents

Summary

Final C-141

Initial Spill Pics

Final Pictures

On April 30, 2010 Oxy reported a release of Crude Oil and Produced Water in the amount of 20 barrels. Of these 20 barrels 5 barrels were recovered. Talon LPE was dispatched to delineate this site at the time of the spill. During delineation, hard rock was met and no further samples were able to be taken. A proposal was sent in for a cosmetic clean-up of removing the surface and backfilling with clean like material. This work was performed. All material was taken to Lea Land for disposal and clean like material was brought in for backfill. Initial spill pictures and final pictures are attached to this document

Thanks,

Kelton Beaird
HES Spec.
Oxy Mid-Con SW
Carlsbad, NM
575-390-1903

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

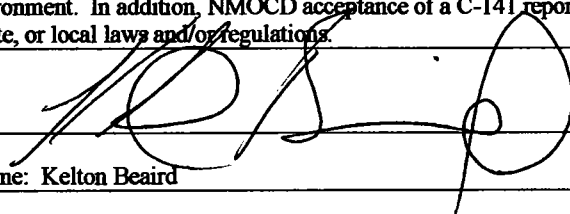
Name of Company OXY USA	Contact Kelton Beaird
Address 1502 W. Commerce Carlsbad, NM 88220	Telephone No. (O) 575-628-4100
Facility Name Righthand Canyon 35-1	Facility Type Gas Well
Surface Owner BLM	Mineral Owner BLM
Lease No. 3001526126	

LOCATION OF RELEASE

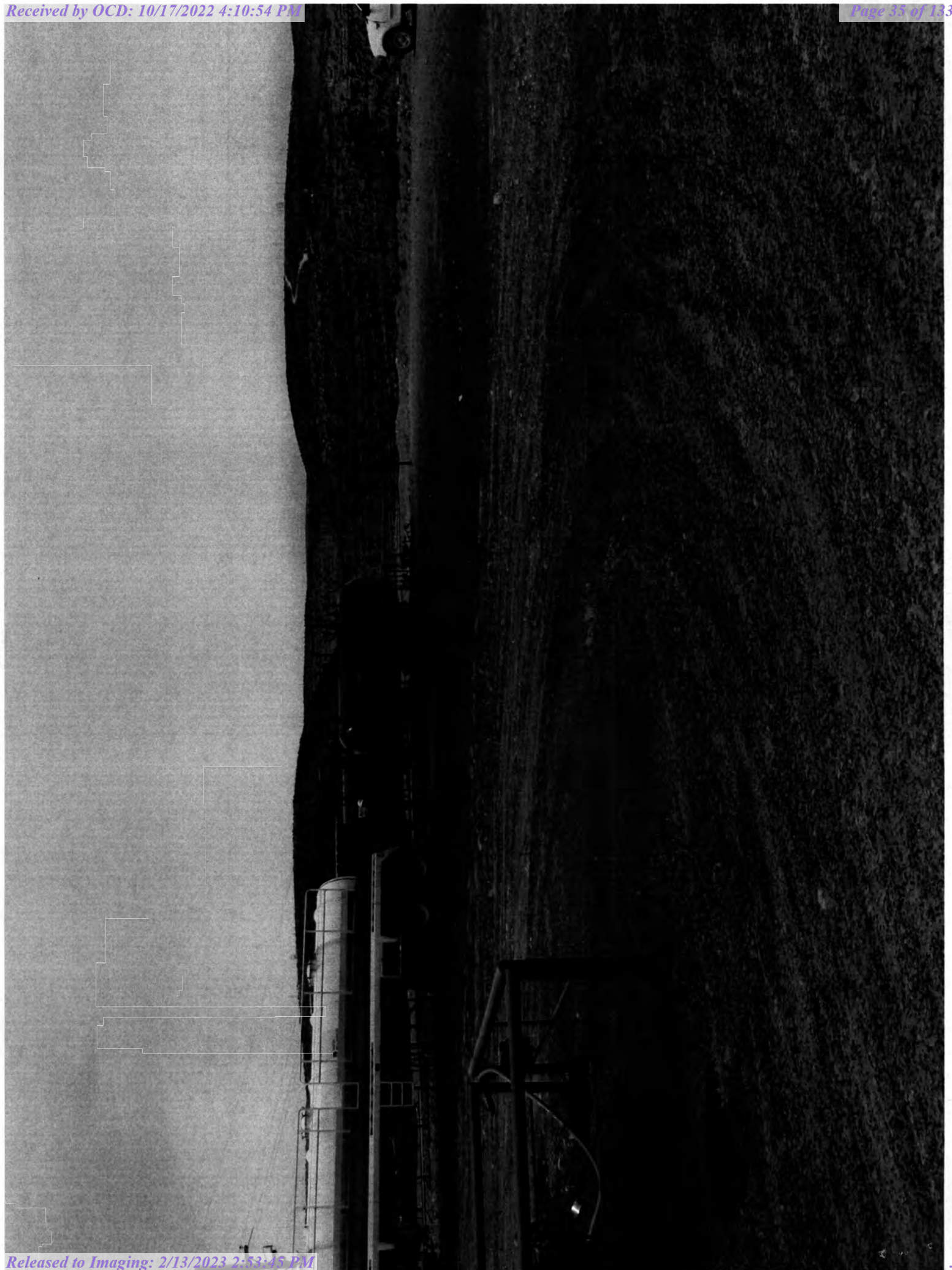
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	35	21S	24E					EDDY

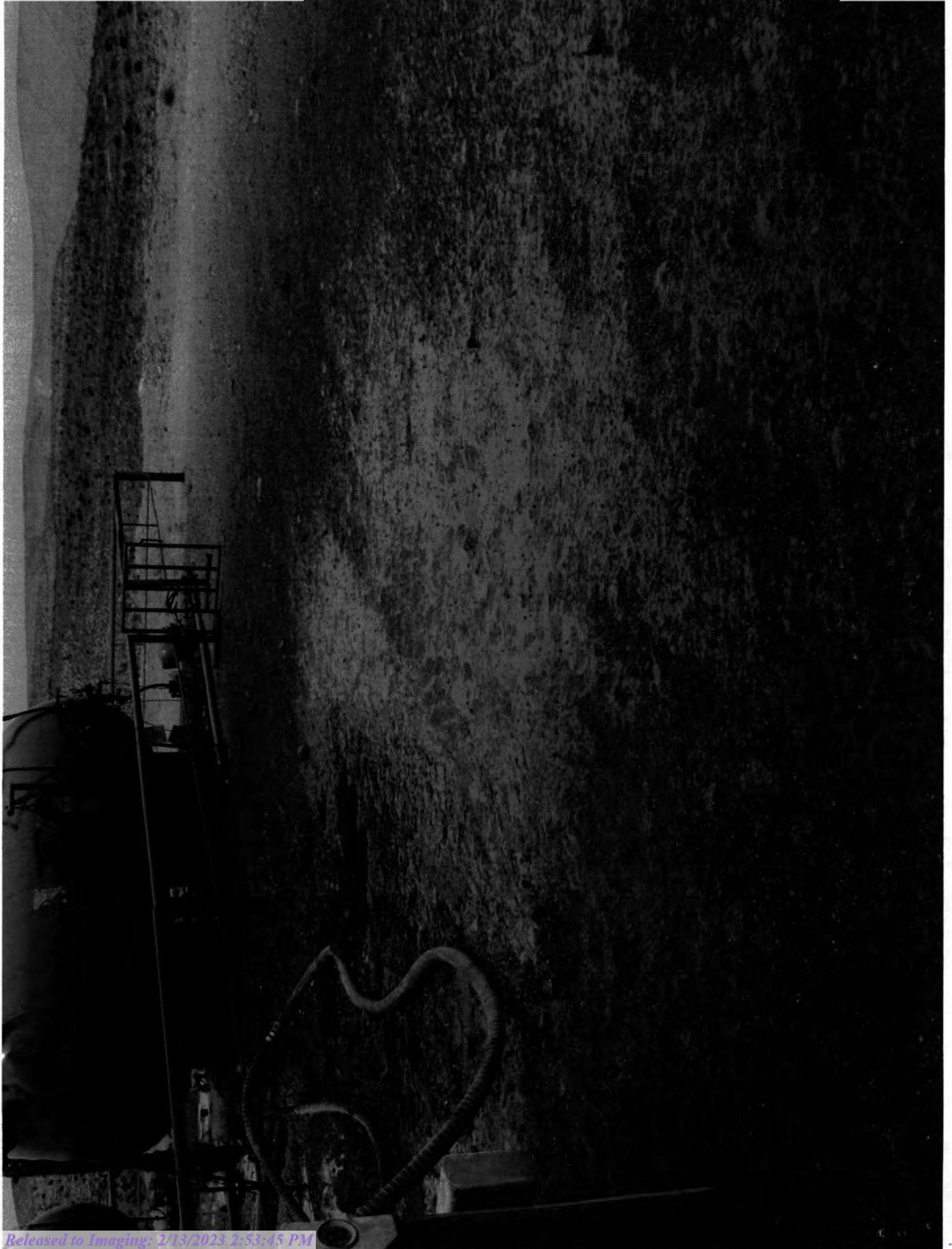
Latitude _____ Longitude _____

NATURE OF RELEASE

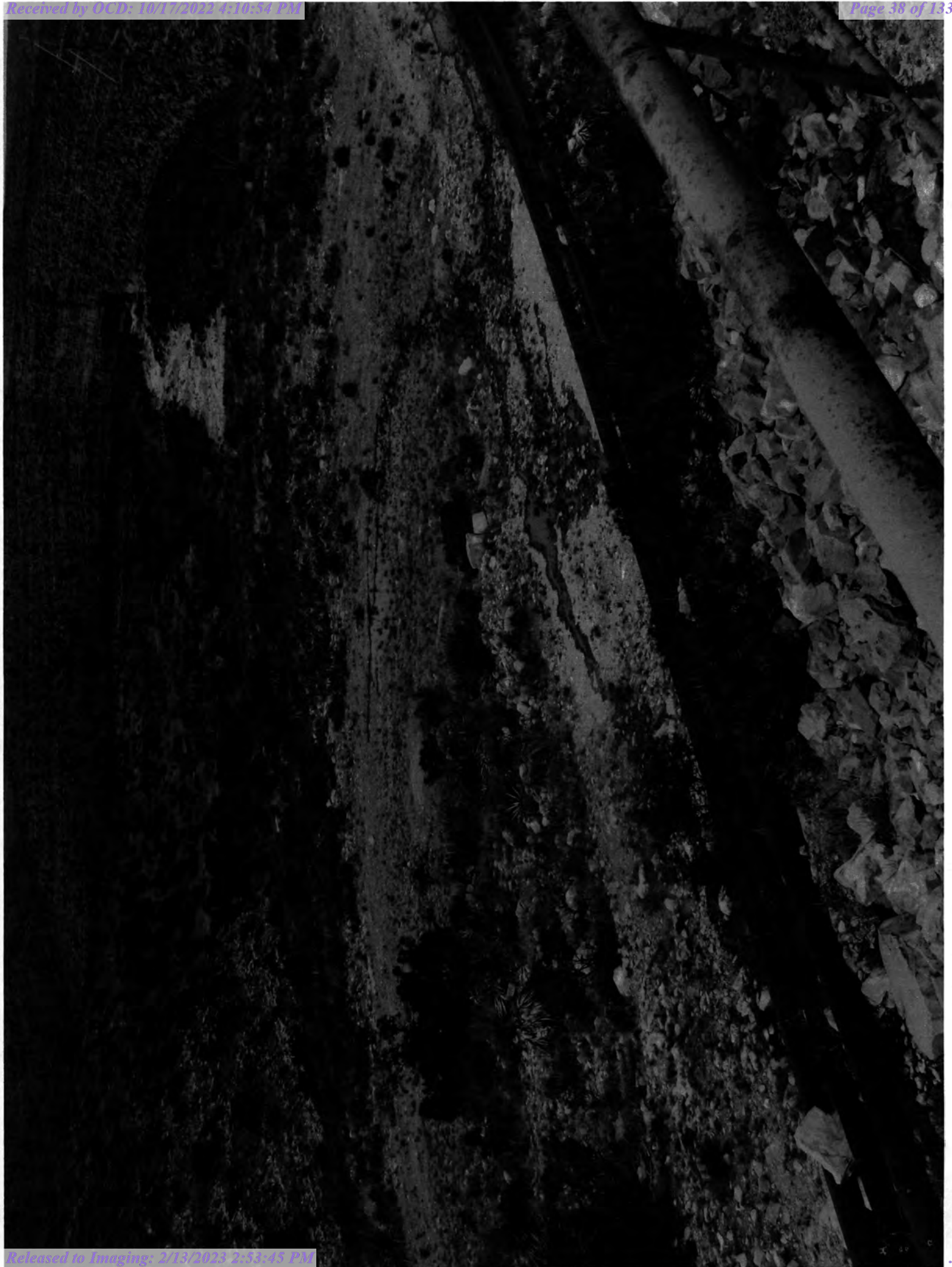
Type of Release Oil/ Produced Water	Volume of Release 15 oil, 5 water (barrels)	Volume Recovered 5 bbls.
Source of Release Gas line from Horizontal Vessel	Date and Hour of Occurrence	Date and Hour of Discovery 4-30-10 @ 10 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour See above	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken. Stainless steel gas supply line broke. The vessel failed to dump causing the vessel to fill with oil.		
Describe Area Affected and Cleanup Action Taken.* Due to hard rock the surface material was removed and replaced with clean-like material.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.		
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Kelton Beaird	Approved by District Supervisor:	
Title: HES Specialist	Approval Date:	Expiration Date:
E-mail Address: kelton_beaird@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 12-21-10		

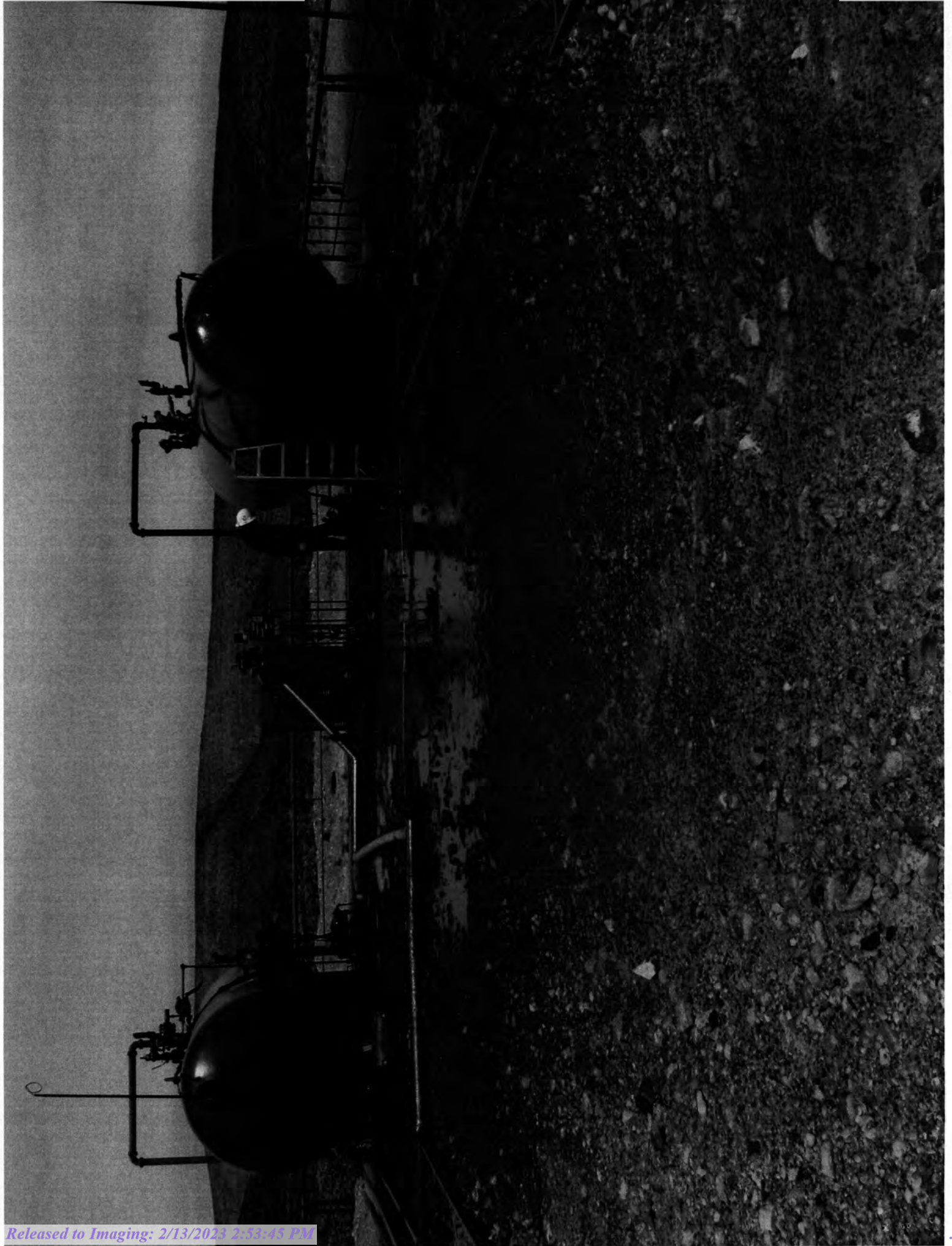
* Attach Additional Sheets If Necessary

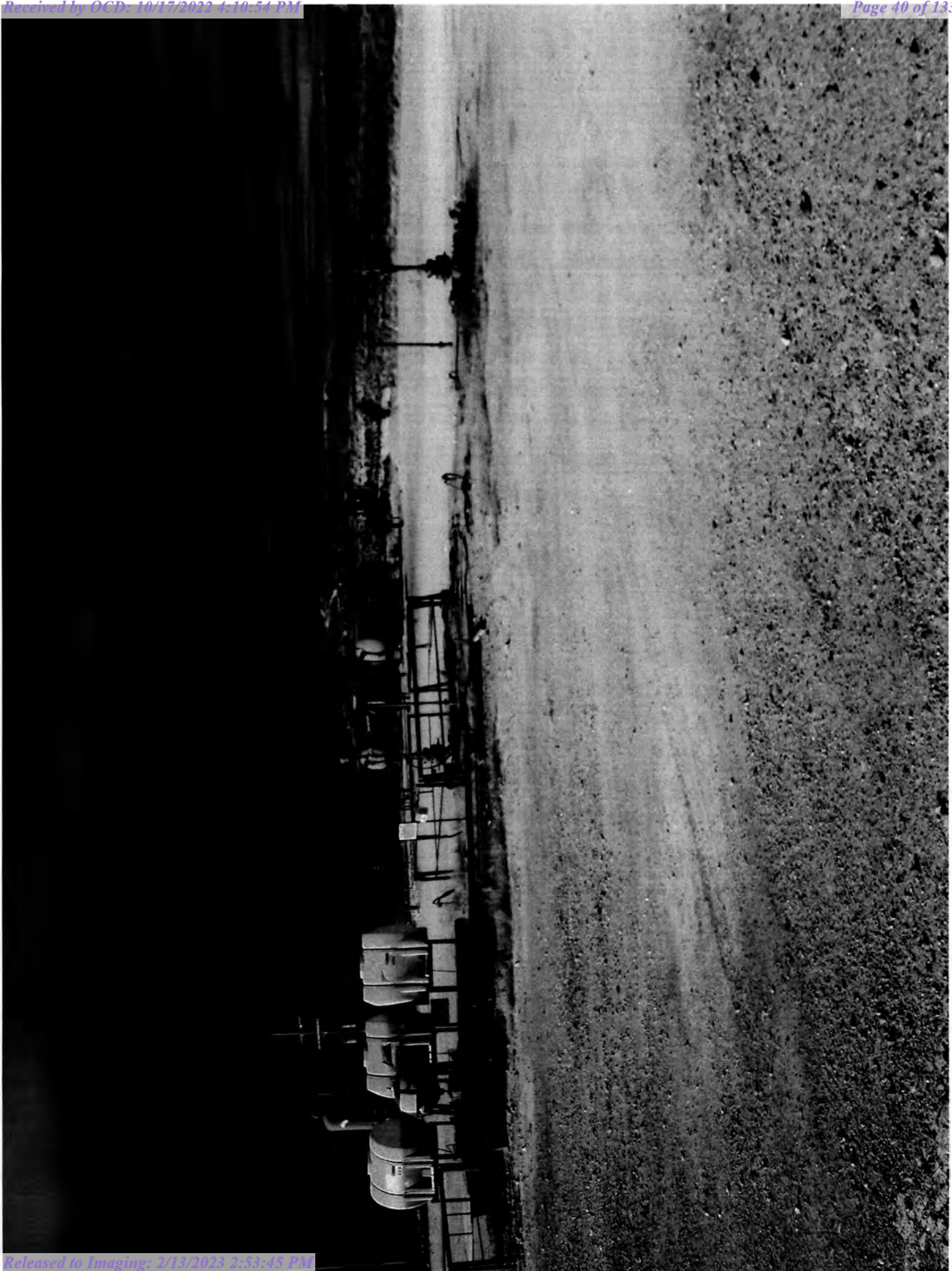


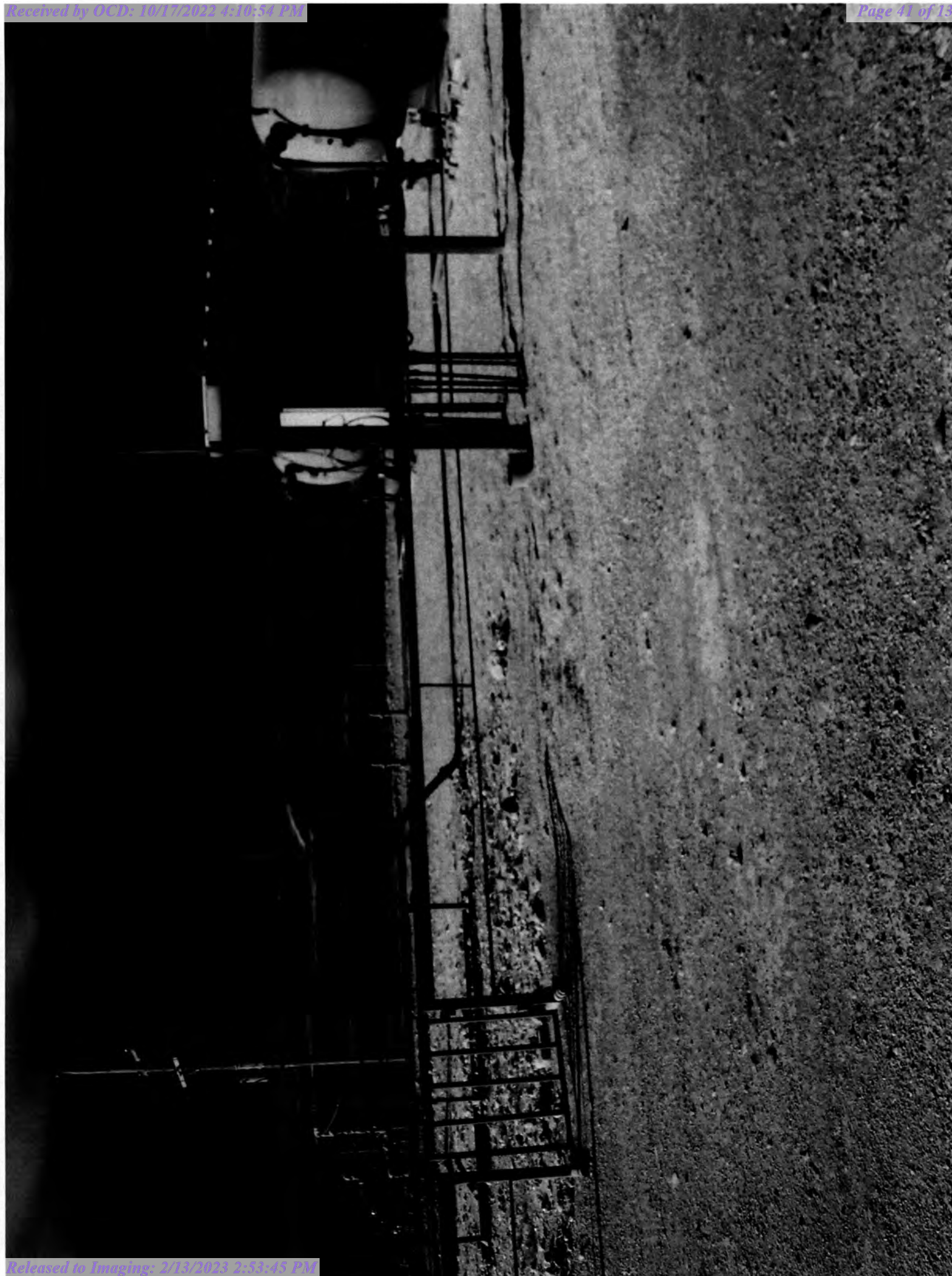




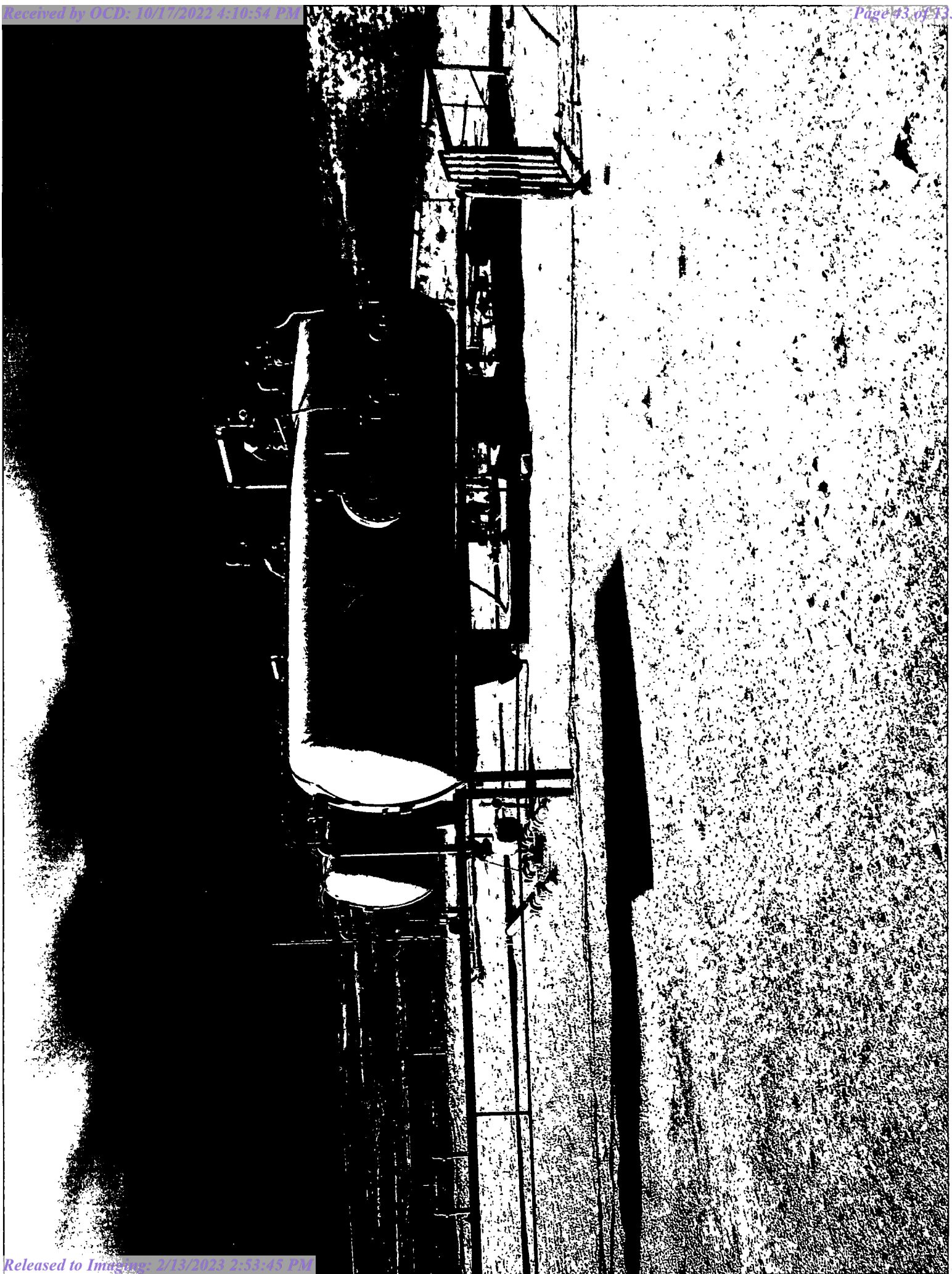












District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
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State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company OXY USA	Contact Kelton Beaird
Address 1502 W. Commerce Carlsbad, NM 88220	Telephone No. (O) 575-628-4100
Facility Name Righthand Canyon 35-1	Facility Type Gas Well

Surface Owner BLM	Mineral Owner BLM	Lease No. 3001526126
-------------------	-------------------	----------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	35	21S	24E					EDDY

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Oil/ Produced Water	Volume of Release 15 oil, 5 water (barrels)	Volume Recovered 5 bbls.
Source of Release Gas line from Horizontal Vessel	Date and Hour of Occurrence	Date and Hour of Discovery 4-30-10 @ 10 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour See above	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

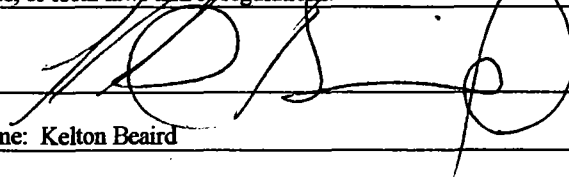
Describe Cause of Problem and Remedial Action Taken.

Stainless steel gas supply line broke. The vessel failed to dump causing the vessel to fill with oil.

Describe Area Affected and Cleanup Action Taken.*

Due to hard rock the surface material was removed and replaced with clean-like material.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Kelton Beaird		Approved by District Supervisor: Accepted for record NMOCD 5/18/15	
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: kelton_beaird@oxy.com	Conditions of Approval: <i>Site Rank by</i>		Attached <input type="checkbox"/>
Date: 12-21-10	<i>NOT Done</i>		

* Attach Additional Sheets If Necessary

*Contamination left in Place
No work done in Pasture?
2RP-728 To Remain open until confirmation
Samples supplied to OCD*



APPENDIX C

Photographic Documentation



View of the release area, facing southwest.



View of the release area, facing northwest.

Date & Time: Tue, Apr 26, 2022, 13:37:37 MDT
Position: 032.431949°N / 104.474114°W (± 15.1 ft)
Altitude: 3851ft (± 11.6 ft)
Datum: WGS-84
Azimuth/Bearing: 298° N62W 5298mils True ($\pm 12^\circ$)
Elevation Angle: -02.1°
Horizon Angle: $+00.0^\circ$
Zoom: 1.0X



View of the release area, facing northwest.

Date & Time: Tue, Apr 26, 2022, 13:38:31 MDT
Position: 032.432098°N / 104.474298°W (± 15.6 ft)
Altitude: 3852ft (± 11.0 ft)
Datum: WGS-84
Azimuth/Bearing: 145° S35E 2578mils True ($\pm 12^\circ$)
Elevation Angle: -17.5°
Horizon Angle: $+00.4^\circ$
Zoom: 1.0X



View of the excavated release area, facing southeast.



APPENDIX D

Tables

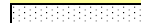
TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Right Hand Canyon 35 1
 Oxy USA Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417038

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
Pothole Sample Analytical Results												
PH-1	4/11/2022	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
		1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
PH-2	4/11/2022	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
		1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
PH-3	4/11/2022	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
		1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
PH-4	4/11/2022	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
		1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
PH-5	4/11/2022	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
		1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
PH-6	4/11/2022	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
PH-7	4/11/2022	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	400
		3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160
PH-8	4/11/2022	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
		3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160
PH-9	4/11/2022	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	4/11/2022	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	917	469	1,386	48.0
PH-10	4/11/2022	2.5	NS					<10.0	43.9	45.7	89.6	NS
	4/11/2022	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	306	170	476	32.0
PH-11	4/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
		0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
PH-12	4/11/2022	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160
		0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
PH-13	4/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
		0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
PH-14	4/11/2022	3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
		0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
PH-15	4/11/2022	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
		0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.7	<10.0	10.7	32.0
PH-15	4/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
		Floor Sample Analytical Results										
FS-1	4/13/2022	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	10.9	1,820	1,100	2,931	48.0
	4/26/2022	2	NS					<10.0	73.2	40.7	114	NS
	6/28/2022	2	NS					<10.0	<10.0	<10.0	<10.0	NS
FS-2	4/13/2022	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,020	739	1,759	16.0
	4/26/2022	2	NS					<10.0	257	134	391	NS
	6/28/2022	2	NS					<10.0	<10.0	<10.0	<10.0	NS
FS-3	4/13/2022	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	11.9	2,260	1,260	3,532	<16.0
	4/26/2022	2	NS					<10.0	42.6	43.9	86.5	NS
FS-4	4/13/2022	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	25.5	6,380	3,000	9,406	32.0
	4/26/2022	2	NS					<10.0	338	155	493	NS
	6/28/2022	2	NS					<10.0	143	76.7	220	NS
	8/9/2022	2	NS					<10.0	1,580	578	2,158	NS
	9/2/2022	2	NS					<10.0	52.7	22.8	75.5	NS
FS-5	4/13/2022	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	6,920	2,170	9,090	<16.0
	4/26/2022	4	NS					<10.0	405	262	667	NS
	6/28/2022	4	NS					<10.0	31.2	18.6	49.8	NS

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Right Hand Canyon 35 1
 Oxy USA Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417038

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
Sidewall Sample Analytical Results												
N-SW-1	4/26/2022	0 - 4			NS			<10.0	137	74.7	212	NS
	6/28/2022	0 - 4			NS			<10.0	27.8	15.0	42.8	NS
N-SW-2	4/26/2022	0 - 2			NS			<10.0	479	283	762	NS
	6/28/2022	0 - 2			NS			<10.0	84.1	81.8	166	NS
	8/9/2022	0 - 2			NS			<10.0	<10.0	<10.0	<10.0	NS
E-SW-1	4/26/2022	0 - 4			NS			<10.0	234	129	363	NS
	6/28/2022	0 - 4			NS			<10.0	436	380	816	NS
	8/9/2022	0 - 4			NS			<10.0	<10.0	<10.0	<10.0	NS
E-SW-2	4/26/2022	0 - 2			NS			<10.0	162	114	276	NS
	6/28/2022	0 - 2			NS			<10.0	80.8	35.1	116	NS
	8/9/2022	0 - 2			NS			<10.0	150	76.1	226	NS
	9/2/2022	0 - 2			NS			<10.0	<10.0	<10.0	<10.0	NS
S-SW-1	4/26/2022	0 - 4			NS			<10.0	240	151	391	NS
	6/28/2022	0 - 4			NS			<10.0	118	102	220	NS
	8/9/2022	0 - 4			NS			<10.0	<10.0	<10.0	<10.0	NS
S-SW-2	4/26/2022	0 - 2			NS			<10.0	485	268	753	NS
	6/28/2022	0 - 2			NS			<10.0	23.9	<10.0	23.9	NS
W-SW-1	4/26/2022	0 - 4			NS			<10.0	269	188	457	NS
	6/28/2022	0 - 4			NS			<10.0	<10.0	<10.0	<10.0	NS
W-SW-2	4/26/2022	0 - 2			NS			<10.0	1,550	1,170	2,720	NS
	6/28/2022	0 - 2			NS			<10.0	<10.0	<10.0	<10.0	NS

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

 Over Excavated and/or Re-Sampled

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX E

Laboratory Data Sheets and Chain-of-Custody Documentation



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

April 19, 2022

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

RE: RIGHT HAND CANYON

Enclosed are the results of analyses for samples received by the laboratory on 04/13/22 13:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 style with a large, stylized 'C' and 'K'.

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: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 1 0.5' (H221550-01)

BTEX 8021B		mg/kg	Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	1.63	
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55	
Total BTEX	<0.300	0.300	04/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	04/19/2022	ND	400	100	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	04/19/2022	ND	204	102	200	4.73	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	194	96.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 93.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.3 % 59.5-142

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

Received: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 1 1' (H221550-02)

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	1.63	
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55	
Total BTX	<0.300	0.300	04/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	04/19/2022	ND	400	100	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	04/19/2022	ND	204	102	200	4.73	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	194	96.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 79.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 83.2 % 59.5-142

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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: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 2 0.5' (H221550-03)

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	1.63	
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55	
Total BTX	<0.300	0.300	04/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	04/19/2022	ND	400	100	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	04/19/2022	ND	204	102	200	4.73	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	194	96.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 92.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.1 % 59.5-142

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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: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 2 1' (H221550-04)

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.14	107	2.00	1.63		
Toluene*	<0.050	0.050	04/19/2022	ND	2.13	107	2.00	0.906		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	1.64		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.62	110	6.00	1.55		
Total BTX	<0.300	0.300	04/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/19/2022	ND	400	100	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	04/19/2022	ND	204	102	200	4.73	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	194	96.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 81.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.4 % 59.5-142

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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: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 3 0.5' (H221550-05)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.38	
Toluene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.28	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.31	105	6.00	2.95	
Total BTX	<0.300	0.300	04/19/2022	ND					

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

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	04/19/2022	ND	400	100	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	04/19/2022	ND	204	102	200	4.73	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	194	96.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 68.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 73.6 % 59.5-142

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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: 04/13/2022
Reported: 04/19/2022
Project Name: RIGHT HAND CANYON
Project Number: 03B1417038
Project Location: OXY -

Sampling Date: 04/11/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: PH - 3 1.5' (H221550-06)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.38	
Toluene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.28	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.31	105	6.00	2.95	
Total BTEX	<0.300	0.300	04/19/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/19/2022	ND	400	100	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	04/19/2022	ND	204	102	200	4.73	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	194	96.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.4 % 59.5-142

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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: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 4 0.5' (H221550-07)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.38	
Toluene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.28	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.31	105	6.00	2.95	
Total BTEX	<0.300	0.300	04/19/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/19/2022	ND	400	100	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	04/19/2022	ND	204	102	200	4.73	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	194	96.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 85.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.2 % 59.5-142

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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: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 4 1' (H221550-08)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.38	
Toluene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.28	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.31	105	6.00	2.95	
Total BTEX	<0.300	0.300	04/19/2022	ND					

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

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	04/19/2022	ND	400	100	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	04/19/2022	ND	204	102	200	4.73	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	194	96.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 73.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.1 % 59.5-142

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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: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 5 0.5' (H221550-09)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.38		
Toluene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.28		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.02	101	2.00	1.95		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.31	105	6.00	2.95		
Total BTEx	<0.300	0.300	04/19/2022	ND						

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

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	04/19/2022	ND	400	100	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	04/19/2022	ND	204	102	200	4.73	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	194	96.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 99.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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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: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 5 1' (H221550-10)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.38	
Toluene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.28	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.31	105	6.00	2.95	
Total BTX	<0.300	0.300	04/19/2022	ND					

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

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	04/19/2022	ND	400	100	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	04/19/2022	ND	204	102	200	4.73	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	194	96.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 77.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 80.3 % 59.5-142

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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: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 6 0.5' (H221550-11)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.38	
Toluene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.28	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.31	105	6.00	2.95	
Total BTX	<0.300	0.300	04/19/2022	ND					

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

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	04/19/2022	ND	400	100	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	04/19/2022	ND	204	102	200	4.73	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	194	96.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 81.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.8 % 59.5-142

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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: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 7 2' (H221550-12)

BTX 8021B			mg/kg							
			Analyzed By: MS/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.38		
Toluene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.28		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.02	101	2.00	1.95		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.31	105	6.00	2.95		
Total BTX	<0.300	0.300	04/19/2022	ND						

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

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	04/19/2022	ND	400	100	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	04/19/2022	ND	204	102	200	4.73		
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	194	96.9	200	2.92		
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND						

Surrogate: 1-Chlorooctane 80.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 82.8 % 59.5-142

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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: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 7 3.5' (H221550-13)

BTX 8021B		mg/kg	Analyzed By: MS/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.38		
Toluene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.28		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.02	101	2.00	1.95		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.31	105	6.00	2.95		
Total BTX	<0.300	0.300	04/19/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/19/2022	ND	400	100	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	04/19/2022	ND	204	102	200	4.73	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	194	96.9	200	2.92	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 72.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.3 % 59.5-142

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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: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 8 0.5' (H221550-14)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.38	
Toluene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.28	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.31	105	6.00	2.95	
Total BTX	<0.300	0.300	04/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	04/19/2022	ND	400	100	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	04/19/2022	ND	247	123	200	3.95	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	182	90.9	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.8 % 59.5-142

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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: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 8 3.5' (H221550-15)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.38		
Toluene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.28		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.02	101	2.00	1.95		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.31	105	6.00	2.95		
Total BTX	<0.300	0.300	04/19/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/19/2022	ND	400	100	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	04/19/2022	ND	247	123	200	3.95	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	182	90.9	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 80.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.7 % 59.5-142

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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: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 9 0.5' (H221550-16)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.38	
Toluene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.28	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.31	105	6.00	2.95	
Total BTX	<0.300	0.300	04/19/2022	ND					

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

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	04/19/2022	ND	400	100	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	04/19/2022	ND	247	123	200	3.95	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	182	90.9	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 73.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.0 % 59.5-142

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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: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 9 2' (H221550-17)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.38	
Toluene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.28	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.31	105	6.00	2.95	
Total BTEx	<0.300	0.300	04/19/2022	ND					

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

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	04/19/2022	ND	400	100	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	04/19/2022	ND	247	123	200	3.95	
DRO >C10-C28*	917	10.0	04/19/2022	ND	182	90.9	200	5.87	
EXT DRO >C28-C36	469	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 83.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 59.5-142

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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: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 1 0.5' (H221550-18)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.38	
Toluene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.28	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.31	105	6.00	2.95	
Total BTX	<0.300	0.300	04/19/2022	ND					

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

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	04/19/2022	ND	416	104	400	3.77		

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*	10.9	10.0	04/19/2022	ND	247	123	200	3.95	
DRO >C10-C28*	1820	10.0	04/19/2022	ND	182	90.9	200	5.87	
EXT DRO >C28-C36	1100	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 152 % 59.5-142

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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: 04/13/2022
Reported: 04/19/2022
Project Name: RIGHT HAND CANYON
Project Number: 03B1417038
Project Location: OXY -

Sampling Date: 04/13/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS - 2 0.5' (H221550-19)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.38	
Toluene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.28	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.31	105	6.00	2.95	
Total BTX	<0.300	0.300	04/19/2022	ND					

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

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	04/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2022	ND	247	123	200	3.95	
DRO >C10-C28*	1020	10.0	04/19/2022	ND	182	90.9	200	5.87	
EXT DRO >C28-C36	739	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 93.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

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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: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 3 0.5' (H221550-20)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.38	
Toluene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.28	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.31	105	6.00	2.95	
Total BTEx	<0.300	0.300	04/19/2022	ND					

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

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	04/19/2022	ND	416	104	400	3.77		

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*	11.9	10.0	04/19/2022	ND	247	123	200	3.95	
DRO >C10-C28*	2260	10.0	04/19/2022	ND	182	90.9	200	5.87	
EXT DRO >C28-C36	1260	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 95.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 154 % 59.5-142

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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: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 4 0.5' (H221550-21)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.38	
Toluene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.28	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.02	101	2.00	1.95	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.31	105	6.00	2.95	
Total BTEX	<0.300	0.300	04/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

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	04/19/2022	ND	416	104	400	3.77		

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*	25.5	10.0	04/19/2022	ND	247	123	200	3.95	
DRO >C10-C28*	6380	10.0	04/19/2022	ND	182	90.9	200	5.87	
EXT DRO >C28-C36	3000	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 91.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 254 % 59.5-142

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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: 04/13/2022
 Reported: 04/19/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/13/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 5 0.5' (H221550-22)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.38		
Toluene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.28		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.02	101	2.00	1.95		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.31	105	6.00	2.95		
Total BTX	<0.300	0.300	04/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

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	04/19/2022	ND	416	104	400	3.77		

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	04/19/2022	ND	247	123	200	3.95	
DRO >C10-C28*	6920	10.0	04/19/2022	ND	182	90.9	200	5.87	
EXT DRO >C28-C36	2170	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 86.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 225 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 3

Company Name: ENSOLVUM Project Manager: BENJAMIN JENNINGS Address: 705 W WIDLEY AVE, SUITE 240 City: MIDLAND State: TX Zip: 79705 Phone #: (214) 219-8858 Fax #: Project #: 0381417038 Project Owner: Project Name: RICH HAWK CHAYON Project Location: Sampler Name: GILBERT MORENO				BILL TO P.O. #: Company: OXY USA INC. Attn: WADE DITRICH Address: City: State: Zip: Phone #: (575) 390-2828 Fax #:				ANALYSIS REQUEST					
Lab I.D. 192550		Sample I.D.		FOR LAB USE ONLY		DATE		TIME		ANALYSIS			
PH-1 PH-1 PH-2 PH-2 PH-3 PH-3 PH-4 PH-4 PH-4 PH-5 PH-5		0.5' 1' 0.5' 1' 0.5' 1.5' 0.5' 1' 0.5' 0.5' 0.5'		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		MATRIX <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER :		PRESERV. <input type="checkbox"/> ACID/BASE: <input type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER :		SAMPLING DATE TIME 4-11-22 14:00 14:02 14:03 14:05 14:07 14:10 14:15 14:20 14:25 14:30		TPH (8015 M) BTEX CHLORIDES (4500)	
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Relinquished By: [Signature] Date: 4-13-22 Time: 1305				Received By: [Signature] Date: Time:				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:					
Relinquished By: [Signature]				Received By: [Signature]				REMARKS: ALL Results are emailed. Please provide Email address: BENJAMIN@ENSOLVUM.COM, WADE DITRICH					
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 11.1 Corrected Temp. °C 0.6		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: [Signature] (Initials)		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 Correction Factor -0.5°C		Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>			

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 3

Company Name: ENUSOLUN		BILL TO		ANALYSIS REQUEST												
Project Manager: BETH JEANINIS		P.O. #:														
Address: 705 W WADLEY AVE, SUITE 240		Company: OXYGEN INC														
City: MIDLAND		Attn: WADE DITTRICH														
Phone #: (210) 219-8858		Address:														
Fax #:		City:														
Project #: 0381417038		State:														
Project Owner:		Zip:														
Project Name: RIGHT HIND CANYON		Phone #: (575) 390-2928														
Project Location:		Fax #:														
Sampler Name: GILBERT MORENO																
FOR LAB USE ONLY																
Lab I.D.	Sample I.D.	[FT] DEPTH	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TPH (8015 M)	BTEX	CHLORIDES (4500)				
4031550	PH-6	0.5'	C	1	✓	✓	✓	4-11-22	14:35	✓	✓	✓				
11	PH-6	2'	C	1				4-11-22	14:40	✓	✓	✓				
12	PH-7	3.5'	C	1				4-11-22	14:45	✓	✓	✓				
13	PH-8	0.5'	C	1				4-11-22	14:50	✓	✓	✓				
14	PH-8	3.5'	C	1				4-11-22	15:00	✓	✓	✓				
15	PH-9	0.5'	C	1				4-11-22	15:10	✓	✓	✓				
16	PH-9	2'	C	1				4-11-22	15:15	✓	✓	✓				
17	PH-1	0.5'	C	1				4-11-22	09:10	✓	✓	✓				
18	PH-1	0.5'	C	1				4-11-22	09:15	✓	✓	✓				
19	PH-1	0.5'	C	1				4-11-22	09:15	✓	✓	✓				

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Relinquished By:	Date: 4-13-22	Received By:	Date: 4-13-22
<i>Cedeno</i>	<i>1305</i>	<i>Melara</i>	<i>1305</i>
Relinquished By:	Date:	Received By:	Date:

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact		Thermometer ID #113	Rush	Cool Intact	Observed Temp. °C
	<i>0.6</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>yo.</i>	Correction Factor -0.5°C	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No	Corrected Temp. °C

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 3

[illegible]



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

April 20, 2022

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

RE: RIGHT HAND CANYON

Enclosed are the results of analyses for samples received by the laboratory on 04/13/22 13:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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: 04/13/2022
 Reported: 04/20/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 10 0.5' (H221551-01)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.38		
Toluene*	<0.050	0.050	04/19/2022	ND	2.10	105	2.00	1.28		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.02	101	2.00	1.95		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.31	105	6.00	2.95		
Total BTEX	<0.300	0.300	04/19/2022	ND						

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

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	04/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2022	ND	247	123	200	3.95	
DRO >C10-C28*	306	10.0	04/19/2022	ND	182	90.9	200	5.87	
EXT DRO >C28-C36	170	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 77.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.1 % 59.5-142

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

Received: 04/13/2022
 Reported: 04/20/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 10 1' (H221551-02)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/20/2022	ND	1.86	92.8	2.00	12.1		
Toluene*	<0.050	0.050	04/20/2022	ND	1.86	92.9	2.00	12.0		
Ethylbenzene*	<0.050	0.050	04/20/2022	ND	1.76	88.1	2.00	12.1		
Total Xylenes*	<0.150	0.150	04/20/2022	ND	5.50	91.6	6.00	12.0		
Total BTX	<0.300	0.300	04/20/2022	ND						

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

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	04/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2022	ND	247	123	200	3.95	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	182	90.9	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 85.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.3 % 59.5-142

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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: 04/13/2022
Reported: 04/20/2022
Project Name: RIGHT HAND CANYON
Project Number: 03B1417038
Project Location: OXY -

Sampling Date: 04/11/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: PH - 11 0.5' (H221551-03)

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	0.916		
Toluene*	<0.050	0.050	04/19/2022	ND	2.11	106	2.00	1.95		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.11	105	2.00	1.64		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.53	109	6.00	2.03		
Total BTX	<0.300	0.300	04/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

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	04/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2022	ND	247	123	200	3.95	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	182	90.9	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.1 % 59.5-142

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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: 04/13/2022
 Reported: 04/20/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 11 1.5' (H221551-04)

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	0.916	
Toluene*	<0.050	0.050	04/19/2022	ND	2.11	106	2.00	1.95	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.11	105	2.00	1.64	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.53	109	6.00	2.03	
Total BTEx	<0.300	0.300	04/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2022	ND	247	123	200	3.95	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	182	90.9	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 92.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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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: 04/13/2022
 Reported: 04/20/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 12 0.5' (H221551-05)

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	0.916		
Toluene*	<0.050	0.050	04/19/2022	ND	2.11	106	2.00	1.95		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.11	105	2.00	1.64		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.53	109	6.00	2.03		
Total BTX	<0.300	0.300	04/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/19/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2022	ND	247	123	200	3.95	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	182	90.9	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 82.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.8 % 59.5-142

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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: 04/13/2022
 Reported: 04/20/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 12 1' (H221551-06)

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	0.916	
Toluene*	<0.050	0.050	04/19/2022	ND	2.11	106	2.00	1.95	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.11	105	2.00	1.64	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.53	109	6.00	2.03	
Total BTX	<0.300	0.300	04/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

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	04/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2022	ND	247	123	200	3.95	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	182	90.9	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 90.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.7 % 59.5-142

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

Received: 04/13/2022
 Reported: 04/20/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 13 0.5' (H221551-07)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	0.916		
Toluene*	<0.050	0.050	04/19/2022	ND	2.11	106	2.00	1.95		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.11	105	2.00	1.64		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.53	109	6.00	2.03		
Total BTEx	<0.300	0.300	04/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	04/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2022	ND	247	123	200	3.95	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	182	90.9	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 92.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 102 % 59.5-142

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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: 04/13/2022
 Reported: 04/20/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 13 3.5' (H221551-08)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	0.916		
Toluene*	<0.050	0.050	04/19/2022	ND	2.11	106	2.00	1.95		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.11	105	2.00	1.64		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.53	109	6.00	2.03		
Total BTEx	<0.300	0.300	04/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2022	ND	247	123	200	3.95	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	182	90.9	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 80.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.6 % 59.5-142

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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: 04/13/2022
 Reported: 04/20/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 14 0.5' (H221551-09)

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	0.916		
Toluene*	<0.050	0.050	04/19/2022	ND	2.11	106	2.00	1.95		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.11	105	2.00	1.64		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.53	109	6.00	2.03		
Total BTX	<0.300	0.300	04/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	04/19/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2022	ND	247	123	200	3.95	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	182	90.9	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 82.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 90.7 % 59.5-142

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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: 04/13/2022
 Reported: 04/20/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 14 2' (H221551-10)

BTEx 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	0.916	
Toluene*	<0.050	0.050	04/19/2022	ND	2.11	106	2.00	1.95	
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.11	105	2.00	1.64	
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.53	109	6.00	2.03	
Total BTEX	<0.300	0.300	04/19/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2022	ND	247	123	200	3.95	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	182	90.9	200	5.87	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 80.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 88.6 % 59.5-142

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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: 04/13/2022
 Reported: 04/20/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 15 0.5' (H221551-11)

BTEx 8021B			mg/kg							
			Analyzed By: MS\							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	0.916		
Toluene*	<0.050	0.050	04/19/2022	ND	2.11	106	2.00	1.95		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.11	105	2.00	1.64		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.53	109	6.00	2.03		
Total BTEX	<0.300	0.300	04/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

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	04/19/2022	ND	416	104	400	3.77		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/19/2022	ND	205	102	200	3.31		
DRO >C10-C28*	10.7	10.0	04/19/2022	ND	213	106	200	5.34		
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND						

Surrogate: 1-Chlorooctane 75.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 77.6 % 59.5-142

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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: 04/13/2022
 Reported: 04/20/2022
 Project Name: RIGHT HAND CANYON
 Project Number: 03B1417038
 Project Location: OXY -

Sampling Date: 04/11/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH - 15 1' (H221551-12)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/19/2022	ND	2.13	106	2.00	0.916		
Toluene*	<0.050	0.050	04/19/2022	ND	2.11	106	2.00	1.95		
Ethylbenzene*	<0.050	0.050	04/19/2022	ND	2.11	105	2.00	1.64		
Total Xylenes*	<0.150	0.150	04/19/2022	ND	6.53	109	6.00	2.03		
Total BTEx	<0.300	0.300	04/19/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/19/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2022	ND	205	102	200	3.31	
DRO >C10-C28*	<10.0	10.0	04/19/2022	ND	213	106	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	04/19/2022	ND					

Surrogate: 1-Chlorooctane 93.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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

Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

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

BILL TO

ANALYSIS REQUEST

Company Name: ENSOLVIA

Project Manager: BEAUX JENNINGS

Address: 905 W WADLEY AVE, SUITE 240

City: MIDLAND State: TX Zip: 79705

Phone #: (214) 214-8858

Fax #: Project Owner:

Project #: 07B1417-038

Project Name: RICHARD HAYWARD

Project Location:

Sampler Name: GILBERT MURENO

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

DEPTH

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH (8015 M)

BTEX

CHLORIDES (4500)

Relinquished By:

Time:

Date:

Time:

Date:

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

Company Name: ENSOLVM

Project Manager: BEYUX JENNINIS

Address: 705 W WHOLEY AVE, SUITE 240

City: MIDLAND **State:** TX **Zip:** 79705

Phone #: (210) 214-8858 **Fax #:**

Project #: 03B1417-03B **Project Owner:**

Project Name: RIGHT HAND CANYON

Project Location:

Sampler Name: GILBERT WUOLNO

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.	Sample I.D.	[H] DEPTH	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING	DATE	TIME
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:				
12A1551		PH-15	0.5'	1										4-11-22	16:55
12		PH-15	1'	1										4-11-22	17:00

TPH (8015 M)

BTEX

CHLORIDES (4500)

Relinquished By: *C. J. JENNINIS*

Date: 4/13/22 **Received By:** *Wade Dittich*

Date: 4/13/22 **Received By:** *Wade Dittich*

Relinquished By:

Date:

Delivered By: (Circle One) **Observed Temp. °C:** 1.1 **Corrected Temp. °C:** 0.6

Sampler - UPS - Bus - Other:

Sample Condition: Cool ☒ Intact ☐ Yes ☐ No

CHECKED BY: *Wade Dittich* (Initials)

Turnaround Time: ☒ Standard ☐ Rush

Bacteria (only): ☐ Sample Condition Cool ☐ Intact ☐ Yes ☐ No

Thermometer ID #113 **Correction Factor -0.5°C**

REMARKS:

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:**

All Results are emailed. Please provide Email address: *BJENNINIS@ENSOLVM.COM, WADE.DITTRICH*



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

April 29, 2022

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

RE: RIGHT HAND CANYON 35 1

Enclosed are the results of analyses for samples received by the laboratory on 04/26/22 16:23.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 style with a large, stylized 'C' and 'K'.

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: 04/26/2022
 Reported: 04/29/2022
 Project Name: RIGHT HAND CANYON 35 1
 Project Number: 03B1417028
 Project Location: OXY - EDDY CO., NM

Sampling Date: 04/26/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 1 2' (H221716-01)

TPH 8015M	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	207	104	200	10.3	
DRO >C10-C28*	73.2	10.0	04/28/2022	ND	223	111	200	3.27	
EXT DRO >C28-C36	40.7	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane 92.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 59.5-142

Sample ID: FS - 2 2' (H221716-02)

TPH 8015M	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	207	104	200	10.3	
DRO >C10-C28*	257	10.0	04/28/2022	ND	223	111	200	3.27	
EXT DRO >C28-C36	134	10.0	04/28/2022	ND					

Surrogate: 1-Chlorooctane 85.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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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: 04/26/2022
 Reported: 04/29/2022
 Project Name: RIGHT HAND CANYON 35 1
 Project Number: 03B1417028
 Project Location: OXY - EDDY CO., NM

Sampling Date: 04/26/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 3 2' (H221716-03)

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	207	104	200	10.3	
DRO >C10-C28*	42.6	10.0	04/28/2022	ND	223	111	200	3.27	
EXT DRO >C28-C36	43.9	10.0	04/28/2022	ND					
Surrogate: 1-Chlorooctane	104 %	66.9-136							
Surrogate: 1-Chlorooctadecane	123 %	59.5-142							

Sample ID: FS - 4 2' (H221716-04)

TPH 8015M	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	207	104	200	10.3	
DRO >C10-C28*	338	10.0	04/28/2022	ND	223	111	200	3.27	
EXT DRO >C28-C36	155	10.0	04/28/2022	ND					
Surrogate: 1-Chlorooctane	105 %	66.9-136							
Surrogate: 1-Chlorooctadecane	133 %	59.5-142							

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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: 04/26/2022
 Reported: 04/29/2022
 Project Name: RIGHT HAND CANYON 35 1
 Project Number: 03B1417028
 Project Location: OXY - EDDY CO., NM

Sampling Date: 04/26/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 5 2' (H221716-05)

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.0	200	6.50	
DRO >C10-C28*	405	10.0	04/28/2022	ND	184	91.8	200	2.15	
EXT DRO >C28-C36	262	10.0	04/28/2022	ND					
Surrogate: 1-Chlorooctane	91.5 %	66.9-136							
Surrogate: 1-Chlorooctadecane	100 %	59.5-142							

Sample ID: N - SW - 1 0-4' (H221716-06)

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.0	200	6.50	
DRO >C10-C28*	137	10.0	04/28/2022	ND	184	91.8	200	2.15	
EXT DRO >C28-C36	74.7	10.0	04/28/2022	ND					
Surrogate: 1-Chlorooctane	88.0 %	66.9-136							
Surrogate: 1-Chlorooctadecane	98.5 %	59.5-142							

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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: 04/26/2022
 Reported: 04/29/2022
 Project Name: RIGHT HAND CANYON 35 1
 Project Number: 03B1417028
 Project Location: OXY - EDDY CO., NM

Sampling Date: 04/26/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: E - SW - 1 0-4' (H221716-07)

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.0	200	6.50	
DRO >C10-C28*	234	10.0	04/28/2022	ND	184	91.8	200	2.15	
EXT DRO >C28-C36	129	10.0	04/28/2022	ND					
Surrogate: 1-Chlorooctane	101 %	66.9-136							
Surrogate: 1-Chlorooctadecane	101 %	59.5-142							

Sample ID: S - SW - 1 0-4' (H221716-08)

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.0	200	6.50	
DRO >C10-C28*	240	10.0	04/28/2022	ND	184	91.8	200	2.15	
EXT DRO >C28-C36	151	10.0	04/28/2022	ND					
Surrogate: 1-Chlorooctane	88.7 %	66.9-136							
Surrogate: 1-Chlorooctadecane	89.8 %	59.5-142							

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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: 04/26/2022
 Reported: 04/29/2022
 Project Name: RIGHT HAND CANYON 35 1
 Project Number: 03B1417028
 Project Location: OXY - EDDY CO., NM

Sampling Date: 04/26/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: W - SW - 1 0-4' (H221716-09)

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.0	200	6.50	
DRO >C10-C28*	269	10.0	04/28/2022	ND	184	91.8	200	2.15	
EXT DRO >C28-C36	188	10.0	04/28/2022	ND					
Surrogate: 1-Chlorooctane	90.7 %	66.9-136							
Surrogate: 1-Chlorooctadecane	91.9 %	59.5-142							

Sample ID: N - SW - 2 0-2' (H221716-10)

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.0	200	6.50	
DRO >C10-C28*	479	10.0	04/28/2022	ND	184	91.8	200	2.15	
EXT DRO >C28-C36	283	10.0	04/28/2022	ND					
Surrogate: 1-Chlorooctane	92.6 %	66.9-136							
Surrogate: 1-Chlorooctadecane	110 %	59.5-142							

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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: 04/26/2022
 Reported: 04/29/2022
 Project Name: RIGHT HAND CANYON 35 1
 Project Number: 03B1417028
 Project Location: OXY - EDDY CO., NM

Sampling Date: 04/26/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: E - SW - 2 0-2' (H221716-11)

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.0	200	6.50	
DRO >C10-C28*	162	10.0	04/28/2022	ND	184	91.8	200	2.15	
EXT DRO >C28-C36	114	10.0	04/28/2022	ND					
Surrogate: 1-Chlorooctane	104 %	66.9-136							
Surrogate: 1-Chlorooctadecane	120 %	59.5-142							

Sample ID: S - SW - 2 0-2' (H221716-12)

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.0	200	6.50	
DRO >C10-C28*	485	10.0	04/28/2022	ND	184	91.8	200	2.15	
EXT DRO >C28-C36	268	10.0	04/28/2022	ND					
Surrogate: 1-Chlorooctane	103 %	66.9-136							
Surrogate: 1-Chlorooctadecane	111 %	59.5-142							

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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: 04/26/2022
 Reported: 04/29/2022
 Project Name: RIGHT HAND CANYON 35 1
 Project Number: 03B1417028
 Project Location: OXY - EDDY CO., NM

Sampling Date: 04/26/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: W - SW - 2 0-2' (H221716-13)

TPH 8015M	mg/kg	Analyzed By: CK/						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.0	200	6.50	
DRO >C10-C28*	1550	10.0	04/28/2022	ND	184	91.8	200	2.15	
EXT DRO >C28-C36	1170	10.0	04/28/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	116 %	66.9-136							
Surrogate: 1-Chlorooctadecane	258 %	59.5-142							

Sample ID: PH - 9 2.5' (H221716-14)

TPH 8015M	mg/kg	Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/28/2022	ND	188	94.0	200	6.50	
DRO >C10-C28*	43.9	10.0	04/28/2022	ND	184	91.8	200	2.15	
EXT DRO >C28-C36	45.7	10.0	04/28/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	119 %	66.9-136							
Surrogate: 1-Chlorooctadecane	121 %	59.5-142							

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Celey D. Keene, Lab Director/Quality Manager



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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

182

Company Name: Ensium LLC							BILL TO		ANALYSIS REQUEST								
Project Manager: Breux Jennings							P.O. #: -										
Address: 601 N. MacFarland St Ste 400							Company: Oxy USA, Inc.										
City: Milled State: TX Zip: 79701							Attn: Mike Dittich										
Phone #: 210 219-8858 Fax #: -							City: -										
Project #: 05B1417028 Project Owner: -							State: - Zip: -										
Project Name: Rough Head Canyon 35 I							Phone #: (575) 390-3888										
Project Location: Eddy County, NM							Fax #: -										
Sampler Name: Kelly Lowery							PRESERV:		SAMPLING								
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	Depth (ft)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME						
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE								
1	FS-1	2	C	1	X					4/24/22	1400	X					
2	FS-2	2	C	1	X					4/24/22	1405	X					
3	FS-3	2	C	1	X					4/24/22	1410	X					
4	FS-4	2	C	1	X					4/24/22	1415	X					
5	FS-5	4	C	1	X					4/24/22	1420	X					
6	N-SM-1	0-4	C	1	X					4/24/22	1425	X					
7	E-SM-1	0-4	C	1	X					4/24/22	1430	X					
8	S-SM-1	0-4	C	1	X					4/24/22	1435	X					
9	M-SM-1	0-4	C	1	X					4/24/22	1440	X					
10	N-SM-2	0-2	C	1	X					4/24/22	1445	X					
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Relinquished By: _____ Date: 4/24/22 Received By: _____ Time: 11:03 AM																	
Delivered By: (Circle One) Observed Temp. °C: 3.5°C Sample Condition: Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												Turnaround Time: _____ Standard Rush <input checked="" type="checkbox"/>					
Corrected Temp. °C: 3.3°C												Thermometer ID #113 Bacteria (only) Sample Condition: Cool Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C: _____ Correction Factor -0.5°C Corrected Temp. °C: _____					
Sampler - UPS - Bus - Other: _____												Remarks: Brennens@ensium.com					



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Company Name: <u>Ensolum, LLC</u>		P.O. #: <u>-</u>		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Bruce Jennings</u>		Company: <u>Day USA, Inc.</u>					
Address: <u>601 N. Mainfield St. Ste 400</u>		Attn: <u>Nick D. Smith</u>					
City: <u>Midland</u>		Address: <u>-</u>					
Phone #: <u>210 219 8858</u>		City: <u>-</u>					
Project #: <u>03B1417028</u>		State: <u>-</u> Zip: <u>-</u>					
Project Name: <u>Right Hand Canyon 35 1</u>		Phone #: <u>(575) 390-2008</u>					
Project Location: <u>City County, NM</u>		Fax #: <u>-</u>					
Sampler Name: <u>Kelly Lowery</u>							
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV.	SAMPLING
				GROUNDWATER	WASTEWATER	SOIL	OIL
				SLUDGE	OTHER :	ACID/BASE:	ICE / COOL
				OTHER :			
				DATE	TIME		
HA21716	Depth						
11	E-SW-2	0-2	0-1	X	4/24/22	1450	X
12	S-SW-2	0-2	0-1	X	4/24/22	1455	X
13	N-SW-2	0-2	0-1	X	4/24/22	1500	X
14	PH-9	2.5	0-1	X	4/24/22	1315	X
NFC 04/24/2022 KL							

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

Relinquished By: <u>Kelly Lowery</u>	Date: <u>4/24/22</u>	Received By: <u>Shadrach</u>	Date: <u>4/24/22</u>
Time: <u>1632</u>	Time: <u>1632</u>	Time: <u>1632</u>	Time: <u>1632</u>
Delivered By: (Circle One)	Observed Temp. °C <u>3.80</u>	Sample Condition	CHECKED BY: (Initials) <u>SL</u>
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>3.30</u>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Add'l Phone #: <u>-</u>			
Thermometer ID #113 <input checked="" type="checkbox"/> Bacteria (only) Sample Condition			
Correction Factor -0.5°C <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C			
Corrected Temp. °C			
REMARKS: <u>Jennings@ensolum.com</u>			

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



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

June 30, 2022

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

RE: RIGHT HAND CANYON 35 1

Enclosed are the results of analyses for samples received by the laboratory on 06/28/22 13:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 06/28/2022
 Reported: 06/30/2022
 Project Name: RIGHT HAND CANYON 35 1
 Project Number: 03B1417038
 Project Location: OXY - EDDY CO., NM

Sampling Date: 06/28/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 1 2' (H222766-01)

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	06/29/2022	ND	190	95.1	200	0.929	
DRO >C10-C28*	<10.0	10.0	06/29/2022	ND	199	99.3	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	06/29/2022	ND					
Surrogate: 1-Chlorooctane	75.8 %	43-149							
Surrogate: 1-Chlorooctadecane	82.1 %	42.5-161							

Sample ID: FS - 2 2' (H222766-02)

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	06/29/2022	ND	190	95.1	200	0.929	
DRO >C10-C28*	<10.0	10.0	06/29/2022	ND	199	99.3	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	06/29/2022	ND					
Surrogate: 1-Chlorooctane	69.6 %	43-149							
Surrogate: 1-Chlorooctadecane	75.8 %	42.5-161							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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: 06/28/2022
 Reported: 06/30/2022
 Project Name: RIGHT HAND CANYON 35 1
 Project Number: 03B1417038
 Project Location: OXY - EDDY CO., NM

Sampling Date: 06/28/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 4 2' (H222766-03)

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	06/29/2022	ND	190	95.1	200	0.929	
DRO >C10-C28*	143	10.0	06/29/2022	ND	199	99.3	200	2.23	
EXT DRO >C28-C36	76.7	10.0	06/29/2022	ND					
Surrogate: 1-Chlorooctane	84.3 %	43-149							
Surrogate: 1-Chlorooctadecane	103 %	42.5-161							

Sample ID: FS - 5 4' (H222766-04)

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	06/29/2022	ND	190	95.1	200	0.929	
DRO >C10-C28*	31.2	10.0	06/29/2022	ND	199	99.3	200	2.23	
EXT DRO >C28-C36	18.6	10.0	06/29/2022	ND					
Surrogate: 1-Chlorooctane	79.1 %	43-149							
Surrogate: 1-Chlorooctadecane	90.6 %	42.5-161							

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

Received: 06/28/2022
 Reported: 06/30/2022
 Project Name: RIGHT HAND CANYON 35 1
 Project Number: 03B1417038
 Project Location: OXY - EDDY CO., NM

Sampling Date: 06/28/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: N - SW - 1 0-4' (H222766-05)

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	06/29/2022	ND	190	95.1	200	0.929	
DRO >C10-C28*	27.8	10.0	06/29/2022	ND	199	99.3	200	2.23	
EXT DRO >C28-C36	15.0	10.0	06/29/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	77.6 %	43-149							
Surrogate: 1-Chlorooctadecane	86.6 %	42.5-161							

Sample ID: W - SW - 1 0-4' (H222766-06)

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	06/29/2022	ND	190	95.1	200	0.929	
DRO >C10-C28*	<10.0	10.0	06/29/2022	ND	199	99.3	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	06/29/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	79.9 %	43-149							
Surrogate: 1-Chlorooctadecane	86.0 %	42.5-161							

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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: 06/28/2022
 Reported: 06/30/2022
 Project Name: RIGHT HAND CANYON 35 1
 Project Number: 03B1417038
 Project Location: OXY - EDDY CO., NM

Sampling Date: 06/28/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: E - SW - 1 0-4' (H222766-07)

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	06/29/2022	ND	190	95.1	200	0.929	
DRO >C10-C28*	436	10.0	06/29/2022	ND	199	99.3	200	2.23	
EXT DRO >C28-C36	380	10.0	06/29/2022	ND					
Surrogate: 1-Chlorooctane	76.6 %	43-149							
Surrogate: 1-Chlorooctadecane	174 %	42.5-161							

Sample ID: S - SW - 1 0-4' (H222766-08)

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	06/29/2022	ND	190	95.1	200	0.929	
DRO >C10-C28*	118	10.0	06/29/2022	ND	199	99.3	200	2.23	
EXT DRO >C28-C36	102	10.0	06/29/2022	ND					
Surrogate: 1-Chlorooctane	82.5 %	43-149							
Surrogate: 1-Chlorooctadecane	115 %	42.5-161							

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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: 06/28/2022
 Reported: 06/30/2022
 Project Name: RIGHT HAND CANYON 35 1
 Project Number: 03B1417038
 Project Location: OXY - EDDY CO., NM

Sampling Date: 06/28/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: N - SW - 2 0-2' (H222766-09)

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	06/29/2022	ND	190	95.1	200	0.929	
DRO >C10-C28*	84.1	10.0	06/29/2022	ND	199	99.3	200	2.23	
EXT DRO >C28-C36	81.8	10.0	06/29/2022	ND					
Surrogate: 1-Chlorooctane	78.7 %	43-149							
Surrogate: 1-Chlorooctadecane	95.6 %	42.5-161							

Sample ID: S - SW - 2 0-2' (H222766-10)

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	06/29/2022	ND	190	95.1	200	0.929	
DRO >C10-C28*	23.9	10.0	06/29/2022	ND	199	99.3	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	06/29/2022	ND					
Surrogate: 1-Chlorooctane	71.8 %	43-149							
Surrogate: 1-Chlorooctadecane	81.5 %	42.5-161							

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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: 06/28/2022
 Reported: 06/30/2022
 Project Name: RIGHT HAND CANYON 35 1
 Project Number: 03B1417038
 Project Location: OXY - EDDY CO., NM

Sampling Date: 06/28/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: W - SW - 2 0-2' (H222766-11)

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	06/29/2022	ND	190	95.1	200	0.929	
DRO >C10-C28*	<10.0	10.0	06/29/2022	ND	199	99.3	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	06/29/2022	ND					
Surrogate: 1-Chlorooctane	72.0 %	43-149							
Surrogate: 1-Chlorooctadecane	81.3 %	42.5-161							

Sample ID: E - SW - 2 0-2' (H222766-12)

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	06/30/2022	ND	180	89.9	200	4.55	
DRO >C10-C28*	80.8	10.0	06/30/2022	ND	193	96.6	200	1.04	
EXT DRO >C28-C36	35.1	10.0	06/30/2022	ND					
Surrogate: 1-Chlorooctane	72.3 %	43-149							
Surrogate: 1-Chlorooctadecane	86.0 %	42.5-161							

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Celey D. Keene, Lab Director/Quality Manager



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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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		BILL TO		P.O. #:		ANALYSIS REQUEST											
Project Manager: Beaux Jennings		Company: Oxy USA Inc.		City:													
Address: 601 N Marientfeld Street, Suite 400		Attn: Wade Dittich		State:													
City: Midland		Address:		Zip:													
Phone #: 210-219-8858		City:		State:													
Fax #: 210-219-8858		Phone #: 575-390-2828		Zip:													
Project #: 030411038		Project Owner:		City:													
Project Name: Rigg's Hand Canyon		State:		Zip:													
Project Location: Eddy Co NM		Phone #: 575-390-2828		Fax #:													
Sample Name: SHANE DILLER		PRESERV		SAMPLING													
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	8015 m
1	1-5-1	2'	C	1	X									6-28-22	1150	X	
2	1-5-2	2'	C	1	X									6-28-22	1155	X	
3	1-5-4	2'	C	1	X									6-28-22	1200	X	
4	1-5-5	4'	C	1	X									6-28-22	1205	X	
5	1-5-1	0-4'	C	1	X									6-28-22	1210	X	
6	1-5-1	0-4'	C	1	X									6-28-22	1215	X	
7	1-5-1	0-4'	C	1	X									6-28-22	1225	X	
8	1-5-1	0-4'	C	1	X									6-28-22	1230	X	
9	1-5-2	0-2'	C	1	X									6-28-22	1235	X	
10	1-5-2	0-2'	C	1	X									6-28-22	1230	X	

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

Relinquished By: Shane Diller Date: 6-28-22 Received By: Shane Diller Date: 6-28-22

Delivered By: (Circle One) Observed Temp. °C 0.92 Sample Condition Checked By: (Initials) SD

Sampler - UPS - Bus - Other: Corrected Temp. °C 0.48 Yes No Yes No

Turnaround Time: Standard Rush Bacteria (only) Sample Condition Observed Temp. °C Corrected Temp. °C

Thermometer ID #113 Yes No Yes No

Corrosion Factor -0.5°C Yes No

Verbal Result: Yes No Add'l Phone #:

All Results are emailed. Please provide Email address:

REMARKS:

CUSTODY SEAL



Date: 6-28-22

Signature: Shane Diller



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

August 12, 2022

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

RE: RIGHT HAND 35 1

Enclosed are the results of analyses for samples received by the laboratory on 08/10/22 9:25.

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: 08/10/2022
 Reported: 08/12/2022
 Project Name: RIGHT HAND 35 1
 Project Number: 03B1417038
 Project Location: OXY - EDDY CO., NM

Sampling Date: 08/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 4 2' (H223574-01)

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	08/11/2022	ND	196	98.2	200	7.14	
DRO >C10-C28*	1580	10.0	08/11/2022	ND	212	106	200	2.87	QM-07
EXT DRO >C28-C36	578	10.0	08/11/2022	ND					

Surrogate: 1-Chlorooctane 92.3 % 43-149

Surrogate: 1-Chlorooctadecane 149 % 42.5-161

Sample ID: N - SW - 2 0-2' (H223574-02)

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	08/12/2022	ND	196	98.2	200	7.14	
DRO >C10-C28*	<10.0	10.0	08/12/2022	ND	212	106	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	08/12/2022	ND					

Surrogate: 1-Chlorooctane 108 % 43-149

Surrogate: 1-Chlorooctadecane 114 % 42.5-161

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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: 08/10/2022
 Reported: 08/12/2022
 Project Name: RIGHT HAND 35 1
 Project Number: 03B1417038
 Project Location: OXY - EDDY CO., NM

Sampling Date: 08/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: E - SW - 1 0-4' (H223574-03)

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	08/11/2022	ND	196	98.2	200	7.14	
DRO >C10-C28*	<10.0	10.0	08/11/2022	ND	212	106	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	08/11/2022	ND					
Surrogate: 1-Chlorooctane	90.5 %	43-149							
Surrogate: 1-Chlorooctadecane	99.9 %	42.5-161							

Sample ID: E - SW - 2 0-2' (H223574-04)

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	08/11/2022	ND	196	98.2	200	7.14	
DRO >C10-C28*	150	10.0	08/11/2022	ND	212	106	200	2.87	
EXT DRO >C28-C36	76.1	10.0	08/11/2022	ND					
Surrogate: 1-Chlorooctane	86.1 %	43-149							
Surrogate: 1-Chlorooctadecane	125 %	42.5-161							

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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: 08/10/2022
 Reported: 08/12/2022
 Project Name: RIGHT HAND 35 1
 Project Number: 03B1417038
 Project Location: OXY - EDDY CO., NM

Sampling Date: 08/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S - SW - 1 0-4' (H223574-05)

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	08/11/2022	ND	196	98.2	200	7.14	
DRO >C10-C28*	<10.0	10.0	08/11/2022	ND	212	106	200	2.87	
EXT DRO >C28-C36	<10.0	10.0	08/11/2022	ND					
Surrogate: 1-Chlorooctane	91.2 %	43-149							
Surrogate: 1-Chlorooctadecane	98.3 %	42.5-161							

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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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene", written over a horizontal line.

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

[illegible]



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

September 07, 2022

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

RE: RIGHT HAND CANYON 35 1

Enclosed are the results of analyses for samples received by the laboratory on 09/02/22 15:14.

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: 09/02/2022
 Reported: 09/07/2022
 Project Name: RIGHT HAND CANYON 35 1
 Project Number: 03B1417038
 Project Location: OXY - EDDY CO., NM

Sampling Date: 09/02/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 4 2' (H224049-01)

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	09/06/2022	ND	181	90.6	200	1.79	
DRO >C10-C28*	52.7	10.0	09/06/2022	ND	184	91.9	200	2.54	
EXT DRO >C28-C36	22.8	10.0	09/06/2022	ND					

Surrogate: 1-Chlorooctane 72.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.3 % 46.3-178

Sample ID: E - SW - 2 0-2' (H224049-02)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/07/2022	ND	190	95.1	200	3.82	
DRO >C10-C28*	<10.0	10.0	09/07/2022	ND	167	83.4	200	3.30	
EXT DRO >C28-C36	<10.0	10.0	09/07/2022	ND					

Surrogate: 1-Chlorooctane 78.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.7 % 46.3-178

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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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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



APPENDIX F

C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Incident ID	nKMW1110138117
District RP	2RP-728
Facility ID	
Application ID	pKMW1110138397

Release Notification

Responsible Party

Responsible Party: Oxy USA Inc.	OGRID: 16696
Contact Name: Tyson Pierce	Contact Telephone: 575-390-3610
Contact email: tyson_pierce@oxy.com	Incident # (assigned by OCD) nKMW1110138117
Contact mailing address: PO Box 4294, Houston, TX 77210	

Location of Release Source

Latitude 32.4319687 Longitude -104.4738007
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Right Hand Canyon 35 1	Site Type: Well Pad
Date Release Discovered: 4/30/2010	API# (if applicable) 30-015-26126

Unit Letter	Section	Township	Range	County
L	35	21S	24E	Eddy

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls): 15	Volume Recovered (bbls): Unk.
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls): 5	Volume Recovered (bbls): Unk.
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Stainless steel gas supply line broke. The vessel failed to dump causing the vessel to fill with oil.

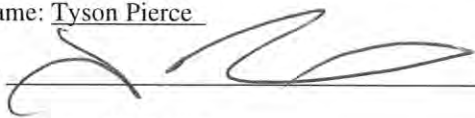
State of New Mexico
Oil Conservation Division

Incident ID	nKMW1110138117
District RP	2RP-728
Facility ID	
Application ID	pKMW1110138397

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Tyson Pierce</u>	Title: <u>Environmental Specialist</u>
Signature: 	Date: <u>10/17/2022</u>
email: <u>tyson_pierce@oxy.com</u>	Telephone: <u>575-390-3610</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>10/18/2022</u>

State of New Mexico
Oil Conservation Division

Incident ID	nKMW1110138117
District RP	2RP-728
Facility ID	
Application ID	pKMW1110138397

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	nKMW1110138117
District RP	2RP-728
Facility ID	
Application ID	pKMW1110138397

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

Printed Name: Tyson Pierce

Title: Environmental Specialist

Signature: 

Date: 10/17/2022

email: Tyson_pierce@oxy.com

Telephone: 575-390-3610

OCD Only

Received by: Jocelyn Harimon

Date: 10/18/2022

State of New Mexico
Oil Conservation Division

Incident ID	nKMW1110138117
District RP	2RP-728
Facility ID	
Application ID	pKMW1110138397

Remediation Plan

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

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

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

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

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

Printed Name: Tyson PierceTitle: Environmental Specialist

Signature: _____

Date: 10/17/2022email: tyson_pierce@oxy.comTelephone: 575-390-3610**OCD Only**Received by: Jocelyn Harimon Date: 10/18/2022☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____

Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nKMW1110138117
District RP	2RP-728
Facility ID	
Application ID	pKMW1110138397

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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.

Printed Name: Tyson Pierce

Title: Environmental Specialist

Signature: _____

Date: 10/17/2022

email: tyson_pierce@oxy.com

Telephone: 575-390-3610

OCD Only

Received by: Jocelyn Harimon

Date: 10/18/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Ashley Maxwell

Date: 2/13/2023

Printed Name: Ashley Maxwell

Title: Environmental Specialist

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
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CONDITIONS

Action 151424

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 151424
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/13/2023