

CLOSURE REPORT

Property:

Lost Tank 4 Fed. #0009

Eddy County, New Mexico 32.42112 N, 103.78030 W NMOCD Incident ID: nAPP2219337009 API No.: 30-015-37953

December 29, 2022 Ensolum Project No. 03B1417052

Prepared for:

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

Prepared by:

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Senior Project Manager

Chans

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Ensolum Project No. 03B1417052

1.0 INTRODUCTION

1.1 Executive Summary

- On July 4, 2022, a release of crude oil and produced water was reported from a packing failure at the wellhead stuffing box at the Lost Tank 4 Fed. #0009, hereinafter referred to as the "Site". Approximately three barrels (bbls) of crude oil and 12 bbls of produced water were release onto the ground surface and impacted an area approximately 100 feet long by 50 feet wide. The stuffing box was repaired, and initial response actions were conducted at the Site. The Remediation Work Plan, prepared by Ensolum, LLC (Ensolum) on behalf of Oxy USA Inc. (Oxy), stated that a soil boring to confirm depth to water in the area would be installed. Subsequent to the results of the depth to water soil boring, the release area would be excavated to meet applicable Closure Criteria.
- Due to the unknown depth to groundwater in the 0.5-mile vicinity, a depth to water soil boring (SB-1) was installed on November 29, 2022 by Ensolum personnel. The soil boring was installed on Oxy property adjacent to the Site. The soil boring was installed to 110 feet bgs, and groundwater was not encountered 72-hours after the soil boring was installed. The applicable Closure Criteria were utilized based on the lack of groundwater observed within the first 110 feet bgs at the Site.
- On October 11, 2022, Ensolum arrived on-Site and collected a total of 30 composite soil samples from 30 locations on the excavation floor (FS-1 through FS-30), and four composite soil samples (NORTH-2, WEST-2, EAST-2, AND SOUTH-2) from four locations outside of the spill extent for vertical delineation. The composite floor samples were collected at a depth of one foot below ground surface (bgs).
- The primary objective of the closure activities was to reduce chemical of concern (COC) concentrations in the on-Site soils to below the applicable New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) Closure Criteria for Soils Impacted by a Release using the New Mexico Administrative Code (NMAC) 19.15.29 *Releases* as guidance.
- The final excavation area measured approximately impacted area measured approximately 50 feet wide and 100 feet long at the maximum extents. The maximum depth of the impacted area measured approximately one foot bgs.
- Based on the laboratory analytical results, the composite soil samples collected from the excavation did not exhibit benzene, total benzene, toluene, ethylbenzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), motor oil range organics (MRO) or chloride concentrations above the applicable NMOCD Closure Criteria. Subsequent to the results of the confirmation soil sampling, the excavated soils were removed and taken off-Site for proper disposal and the excavated area was backfilled with clean fill material, and then contoured to the original surrounding grade.



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

1.2 Site Description & Background

Operator:	Oxy USA Inc. (Oxy)
Site Name:	Lost Tank 4 Fed. #0009
Location:	Eddy County, New Mexico 32.42112 N, 103.78030 W
Property:	Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

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

1.3 **Project Objective**

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

2.0 CLOSURE CRITERIA

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

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



- Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- Based on the Karst Occurrence Potential (.kmz) provided by the Bureau of Land Management (BLM), the Site is not located within an unstable area.
- 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				
	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg				
	TPH (GRO+DRO)	EPA SW-846 Method 8015M	1,000 mg/kg				
>100 feet	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 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 July 4, 2022, a release of crude oil and produced water was reported from a packing failure at the wellhead stuffing box at the Lost Tank 4 Fed. #0009. Approximately three bbls of crude oil and 12 bbls of produced water were release onto the ground surface and impacted an area approximately 100 feet long by 50 feet wide. The stuffing box was repaired, and initial response actions were conducted at the Site. The Remediation Work Plan, prepared by Ensolum on behalf of Oxy, stated that a soil boring to confirm depth to water in the area would be installed. Subsequent to the results of the depth to water soil boring, the release area would be excavated to meet applicable Closure Criteria.

Due to the unknown depth to groundwater in the 0.5-mile vicinity, a depth to water soil boring (SB-1) was installed on November 29, 2022 by Ensolum personnel. The soil boring was installed on Oxy property adjacent to the Site. The soil boring was installed to 110 feet bgs, and groundwater was not encountered 72-hours after the soil boring was installed. The applicable Closure Criteria were utilized based on the lack of groundwater observed within the first 110 feet bgs at the Site.

On October 11, 2022, Ensolum arrived on-Site and collected a total of 30 composite soil samples from 30 locations on the excavation floor (FS-1 through FS-30), and four composite soil samples (NORTH-2, WEST-2, EAST-2, AND SOUTH-2) from four locations outside of the spill extent for vertical delineation. The composite floor samples were collected at a depth of one foot bgs.

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



The final excavation area measured approximately impacted area measured approximately 50 feet wide and 100 feet long at the maximum extents. The maximum depth of the impacted area measured approximately one foot bgs.

The lithology encountered during the completion of sampling activities consisted primarily of a well graded silty brown sand and caliche.

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

4.0 SOIL SAMPLING PROGRAM

Ensolum's composite soil sampling program included the collection of 30 composite soil samples from 30 locations on the excavation floor (FS-1 through FS-30), and four composite soil samples (NORTH-2, WEST-2, EAST-2, AND SOUTH-2) from four locations outside of the spill extent for vertical delineation. The composite floor samples were collected at a depth of one foot bgs.

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

5.0 SOIL LABORATORY ANALYTICAL METHODS

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

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

6.0 DATA EVALUATION

Ensolum compared the benzene, total BTEX, TPH GRO/DRO/MRO, and chloride concentrations associated with the composite soil samples collected from the excavation floor (FS-1 through FS-30) and the locations outside of the spill extent (NORTH-2, WEST-2, EAST-2, AND SOUTH-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 mg/kg.
- Laboratory analytical results indicate that total BTEX concentrations for the composite soil samples below the laboratory SDLs, which are below the applicable NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicate combined TPH GRO/DRO concentrations for the composite soil samples are below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 1,000 mg/kg from >100 feet.
- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the composite soil samples are below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 2,500 mg/kg from >100 feet.



• Laboratory analytical results indicate chloride concentrations for the composite soil samples are below the applicable NMOCD Closure Criteria of 20,000 mg/kg from >100 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. The spill area is a caliche pad and does not require reclamation or revegetation at this time.

8.0 FINDINGS AND RECOMMENDATION

- On July 4, 2022, a release of crude oil and produced water was reported from a packing failure at the wellhead stuffing box at the Lost Tank 4 Fed. #0009. Approximately three bbls of crude oil and 12 bbls of produced water were release onto the ground surface and impacted an area approximately 100 feet long by 50 feet wide. The stuffing box was repaired, and initial response actions were conducted at the Site. The Remediation Work Plan, prepared by Ensolum on behalf of Oxy, stated that a soil boring to confirm depth to water in the area would be installed. Subsequent to the results of the depth to water soil boring, the release area would be excavated to meet applicable Closure Criteria.
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- 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 NMAC 19.15.29 *Releases* as guidance.
- The final excavation area measured approximately impacted area measured approximately 50 feet wide and 100 feet long at the maximum extents. The maximum depth of the impacted area measured approximately one foot bgs.
- Based on the laboratory analytical results, the final composite soil samples collected from the excavation did not exhibit benzene, BTEX, TPH GRO/DRO/MRO or chloride concentrations above the applicable NMOCD Closure Criteria.
- 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. The spill area is a caliche pad and
 does not require reclamation or revegetation at this time.

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.

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

Released to Imaging: 1/25/2023 2:34:10 PM

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Received by OCD: 12/29/2022 8:20:31 PM







APPENDIX B

Supporting Documentation



E N S O L U M



Form 3160-5 UNITED STATES (June 2015) DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT				FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018 5. Lease Serial No.			
SUNDRY I Do not use this	NOTICES AND REF form for proposals Use Form 3160-3 (PORTS ON WEL	-enter an		6. If Indian, Allottee of	r Tribe Name	
the second se	TRIPLICATE - Other ins	tructions on page 2			7. If Unit of CA/Agreement, Name and/or No.		
1. Type of Well Gas	Well 🖌 Other				8. Well Name and No. Lost Tank 4 Fed. #0009		
2. Name of Operator Oxy USA Inc.					9. API Well No. 30-015-37953		
3a. Address PO Box 4294, Houstor	n, TX 77210	3b. Phone No. <i>(inch</i> 575-390-2828	ude area cod		10. Field and Pool or Exploratory Area		
4. Location of Well <i>(Footage, Sec., T.,</i> Section 4, Township 22S, Range		n)			11. Country or Parish, Eddy County, New		
12. CHI	ECK THE APPROPRIATE	BOX(ES) TO INDICA	TE NATURI	E OF NOTI	CE, REPORT OR OTH	ER DATA	
TYPE OF SUBMISSION			TY	PE OF AC	TION		
V Notice of Intent	Acidize	Deepen Hydraulic New Cons	Fracturing	Recla	uction (Start/Resume) amation mplete	Water Shut-Off Well Integrity Other	
Subsequent Report	Change Plans	Plug and A	Abandon	Temp	porarily Abandon r Disposal		
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United States Department of the Interior

BUREAU OF LAND MANAGEMENT Carlsbad Field Office 620 E. Greene St. Carlsbad, NM 88220-6292

In Reply Refer To: 3162.4 (NM-080) NMNM0417696

November 1, 2022

NM Office of the State Engineer 1900 W. Second St. Roswell, NM 88201

Re: Lost Tank 4 Federal 9 Section 14, T22S-R31E 32.42112,-103.78030 Eddy County, New Mexico

To Whom It May Concern:

The above well location and the immediate area mentioned above requires advanced soil boring to take place at approximately 55 feet below ground surface via an air rotary rig with hallow stem auger equipment. The boring will be secured and left open for 72 hours at which time Oxy USA Inc will assess for the presence or absence of groundwater. An oil-water interface probe will be utilized to confirm depth to groundwater in the soil boring. The Bureau of Land Management (landowner) authorizes the access of the area to accomplish depth to groundwater determination of this site.

If you have any questions contact Crisha Morgan, at 575-234-5987.

Sincerely,

Crisha Morgan

Crisha A. Morgan Certified Environmental Protection Specialist

Beaux Jennings

From:	Beaux Jennings
Sent:	Thursday, October 6, 2022 4:36 PM
То:	OCD.Enviro@emnrd.nm.gov
Subject:	Lost Tank 4 Fed. #0009 (Incident ID: nAPP2219337009)

Good Afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Lost Tank 4 Fed. #0009 (Incident ID: nAPP2219337009) on Tuesday, October 11th at 2pm. 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

WDITTRICH (ENVIRONMENTAL COORDINATOR FOR OXY USA INC) SIGN OUT HELP

Searches Operator Data Submissions Administration

OCD Permitting

Operator Data Action Status Action Status Item Details Home Action Search Results

[C-141] Release Corrective Action (C-141) Application

Submission Inform	ation			
Submission ID:	134058	Dief	ricts:	Artesia
Operator:	[<u>16696]</u> OXY USA INC	Cou	inties:	Eddy
Description:	OXY USA INC [16696] LOST TANK 4 FED. #0009			
	nAPP2219337009 {Discovery: 07/04/2022, Active, , Feder	ral}		
Status:	APPROVED			
Status Date:	09/30/2022			
References (2):	30-015-37953, nAPP2219337009			
Forms				
Attachments:	C-141, Proposed Schedule			
Questions				
This submission type do	es not have questions, at this time.			
Acknowledgments				
This submission type do	es not have acknowledgments, at this time.			
Comments				
No comments found for	this submission.			
Conditions				
Summary:	inobul (9/30/2022), Remediation Plan Approved with Condition for proven depth to water determination. Sidewall samples			

Reasons

No reasons found for this submission.

Feee

OCD Permitting

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WDITTRICH (ENVIRONMENTAL COORDINATOR FOR OXY USA INC) SIGN OUT HELP

		Searches	Operator Data	Submissions	Administration
Payment	8/15/2022	Credit Card [CC]	\$150	.00 Paid [PAID]	9/30/2022

Go Back

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EMNRD Home OCD Main Page OCD Rules Help

Page 22 of 135

August 15, 2022

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

> Re: Remediation Work Plan Lost Tank 4 Fed. #0009 Off Louis Whitlock Rd 32.42112° N, 103.78030° W Eddy County, New Mexico Incident ID: NAPP2219337009 Ensolum Project No. 03B1417052

Dear Mr. Dittrich:

Ensolum, LLC. (Ensolum) has prepared this Remediation Work Plan to perform environmental consulting services in the vicinity of the Lost Tank 4 Fed. #0009, referred to hereinafter as the "Site." The Site is located off Louis Whitlock Rd and an unnamed caliche road, approximately 21 miles northeast of Loving in Eddy County, New Mexico.

I. SITE DESCRIPTION & BACKGROUND

Operator:	Oxy USA Inc. (Oxy)
Site Name:	Lost Tank 4 Fed. #0009
Location:	32.42112° N, 103.78030° W Eddy County, New Mexico
Property:	Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

The Site is located in Unit G, Section 4, Township 22 South, Range 31 East, in Eddy County, New Mexico (32.42112° N, 103.78030° W) and is associated with oil and gas exploration and production operations on BLM Federal Land.

On July 4, 2022, a release of crude oil and produced water was reported from a packing failure from the stuffing box on a wellhead. Approximately three (3) barrels (bbls) of crude oil and approximately 12 bbls of produced water were released. No fluids were recovered. Oxy reported the release to the NMOCD and BLM through email notification on July 12, 2022. The release was assigned Incident Number NAPP2219337009.

On July 29, 2022, Ensolum arrived on-Site and collected a total of six (6) composite pothole soil samples from two (2) locations (SP-1 and SP-2) at one-foot intervals down to a depth of three (3) feet below ground surface (bgs) within the release area. Additionally, four (4) delineation composite soil samples (North, East, South, and West) were collected from a depth of 0 - 0.5 feet bgs to determine the horizontal and vertical extent of the release.

Mr. Wade Dittrich Remediation Work Plan Lost Tank 4 Fed. #0009

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

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

II. CLOSURE CRITERIA

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

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

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Mr. Wade Dittrich Remediation Work Plan Lost Tank 4 Fed. #0009 Page 24 of 135

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	Constituent	Method	Lingit				
groundwater less	Constituent	Internod	Limit				
than 10,000 mg/I TDS							
	Chloride	EPA 300.0 or SM4500 CI B	600 mg/kg				
	TPH	EPA SW-846 Method	100 mg/kg				
≤50 feet	(GRO+DRO+MRO)	8015M					
	BTEX	EPA SW-846 Method	50 mg/kg				
		8021B or 8260B					
	Benzene	EPA SW-846 Method	10 mg/kg				
		8021B or 8260B					

III. SCOPE OF SERVICES

A. Health and Safety Plan

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

B. Soil Boring Installation

Due to the absence of water wells being present within 0.5 mile of the Site, one (1) soil boring will be installed to determine the depth to groundwater in the area. The soil boring will be advanced utilizing an air rotary drilling rig, under the supervision of a state-licensed water well driller. The soil boring will be left open for approximately 48 hours to allow groundwater, if encountered, to reach static level.

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

E ENSOLUM

If groundwater is not encontered, soil cuttings will be placed back in the bore hole and capped with bentonite sebsequent to installation and the 48 hour waiting period.

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

C. Excavation Activities

Subsequent to soil boring installation activities, the Site will be excavated by a third-party contractor to remove impacted soils in the release area based on laboratory analytical data, olfactory and/or visual evidence of impairment. Based on current analytical data taken at the Site, sample point SP-1 and SP-2 will be excavated down to two (2) feet bgs. In addition, delineation points NORTH and EAST will be excavated and subsequently sampled to ensure delineation during excavation activities.

At this time, an estimated 460 cubic yards (cy) will be excavated form the release area. The excavated impacted soils will be placed on plastic on-Site and will be taken off-Site for proper disposal upon receipt of laboratory analytical results. The remediation will be completed within 90 days of approval from the NMOCD.

D. Confirmation Composite Soil Sampling Program

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

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

E. Laboratory Analytical Program

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

IV. REPORTING

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



Mr. Wade Dittrich Remediation Work Plan Lost Tank 4 Fed. #0009

August 15, 2022 **Page 5**

V. DELIVERABLES

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

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

Sincerely, **Ensolum, LLC**

ather Holthaus

Senior Project Manager

Beaux Jennings

Senior Project Manager bjennings@ensolum.com

Attachments:

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



ATTACHMENT A

Figures

Released to Imaging: 1/25/2023 2:34:10 PM

Received by OCD: 12/29/2022 8:20:31 PM



Received by OCD: 12/29/2022 8:20:31 PM





APPENDIX B

Supporting Documentation

OSE POD Locations Map



8/2/2022, 2:56:08 PM

OSE District Boundary SiteBoundaries

New Mexico State Trust Lands

Both Estates



Esn, HERE, GeoTechnologies, Inc., Esn, HERE, Garmin, GeoTechnologies, Inc., U.S. Department of Energy Office of Legacy Management, Maxar

Unofficial Online Map These maps are distributed "as is" without warranty of any kind.

Released to Imaging: 1/25/2023 2:34:10 PM

Received by OCD: 12/29/2022 8:20:31 PM National Flood Hazard Layer FIRMette



Legend

regulatory purposes.

Page 33 of 135



Releasea to Imaging: 1/25/2023 294:10 PM 1,500 2.000

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

U.S. Fish and Wildlife Service

National Wetlands Inventory

Lost Tank 4 Fed. #0009



August 2, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- **Freshwater Pond**

Lake Other Riverine This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Released to Imaging: 1/25/2023 2:34:10 PM



Active Mines in New Mexico



Registered Mines

Aggregate, Stone etc.



Sources: Esn. USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

EMNRD MMD GIS Coordinator NM Energy, Mineraits and Natural Resources Department (http://nm-emnrd maps.arcgis.com/apps/webappviewer/index.html?id=1556577974664d89547790897ca2795)

ATTACHMENT C

Photographic Documentation


View of release point while marking for one call, facing south.







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

ENSOLUM

ATTACHMENT D

Table 1 - Soil Sample Analytical Results

.

ENSOLUM

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS

Oxy USA Inc. - Lost Tank 4 Fed. #0009 Eddy County, New Mexico

Ensolum Project No. 03B1417052

Sample I.D.	Sample Date	Sample 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)
	l Conservation I Soils Impacted I (≤ 50 feet)	Division Closure by a Release	10	NE	NE	NE	50	NE	NE	NE	100	600
				•	Pothole	Sample Analytic	al Results	•	•	•	<u> </u>	
		0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	94.0	28.0	122	15,200
SP-1	7/29/2022	1 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	81.1	21.8	103	14,000
		2 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	84.8	17.4	102	2,680
		0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	6,000
SP-2	7/29/2022	1 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	9,000
		2 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	560
					Delineatio	on Sample Analyt	ical Results					
NORTH	7/29/2022	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	880
WEST	7/29/2022	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
EAST	7/29/2022	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	2,400	<10.0	2,400	224
SOUTH	7/29/2022	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0

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

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

ENSOLUM

ATTACHMENT E

Laboratory Report & Chain-of-Custody Documentation



August 04, 2022

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

RE: LOST TANK 4 FED. # 0009

Enclosed are the results of analyses for samples received by the laboratory on 07/29/22 12:20.

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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: NORTH 0-.5' (H223364-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	ND	243	121	200	1.83	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	252	126	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					
Surrogate: 1-Chlorooctane	94.2	% 43-149)						
Surrogate: 1-Chlorooctadecane	87.9	% 42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: WEST 0-.5' (H223364-02)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	ND	243	121	200	1.83	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	252	126	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					
Surrogate: 1-Chlorooctane	93.7	% 43-149)						
Surrogate: 1-Chlorooctadecane	87.6	% 42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: EAST 0-.5' (H223364-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d 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	08/03/2022	ND	243	121	200	1.83	
DRO >C10-C28*	2400	10.0	08/03/2022	ND	252	126	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					
Surrogate: 1-Chlorooctane	98.3 9	% 43-149)						
Surrogate: 1-Chlorooctadecane	173 9	6 42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SOUTH 0-.5' (H223364-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.4 9	69.9-14	0						
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	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	ND	243	121	200	1.83	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	252	126	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					
Surrogate: 1-Chlorooctane	95.3 9	% 43-149)						
Surrogate: 1-Chlorooctadecane	90.9 9	% 42.5-16	1						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SP - 1 0-1' (H223364-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.0 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15200	16.0	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2022	ND	211	106	200	3.29	
DRO >C10-C28*	94.0	10.0	08/02/2022	ND	221	111	200	3.14	
EXT DRO >C28-C36	28.0	10.0	08/02/2022	ND					
Surrogate: 1-Chlorooctane	72.3 9	% 43-149)						
Surrogate: 1-Chlorooctadecane	87.2 9	42.5-16	1						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SP - 2 0-1' (H223364-06)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2022	ND	211	106	200	3.29	
DRO >C10-C28*	<10.0	10.0	08/02/2022	ND	221	111	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	08/02/2022	ND					
Surrogate: 1-Chlorooctane	86.7	% 43-149)						
Surrogate: 1-Chlorooctadecane	99.4	% 42.5-16							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SP - 1 1-2' (H223364-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2022	ND	211	106	200	3.29	
DRO >C10-C28*	81.1	10.0	08/02/2022	ND	221	111	200	3.14	
EXT DRO >C28-C36	21.8	10.0	08/02/2022	ND					
Surrogate: 1-Chlorooctane	87.4	% 43-149)						
Surrogate: 1-Chlorooctadecane	103 9	42.5-16							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SP - 2 1-2' (H223364-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9000	16.0	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2022	ND	211	106	200	3.29	
DRO >C10-C28*	<10.0	10.0	08/02/2022	ND	221	111	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	08/02/2022	ND					
Surrogate: 1-Chlorooctane	86.9	% 43-149)						
Surrogate: 1-Chlorooctadecane	100	% 42.5-16	1						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SP - 1 2-3' (H223364-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2022	ND	1.92	96.0	2.00	9.82	
Toluene*	<0.050	0.050	08/02/2022	ND	2.01	100	2.00	9.43	
Ethylbenzene*	<0.050	0.050	08/02/2022	ND	2.00	100	2.00	9.37	
Total Xylenes*	<0.150	0.150	08/02/2022	ND	6.10	102	6.00	8.83	
Total BTEX	<0.300	0.300	08/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2022	ND	211	106	200	3.29	
DRO >C10-C28*	84.8	10.0	08/02/2022	ND	221	111	200	3.14	
EXT DRO >C28-C36	17.4	10.0	08/02/2022	ND					
Surrogate: 1-Chlorooctane	83.0	% 43-149)						
Surrogate: 1-Chlorooctadecane	100 9	42.5-16	1						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SP - 2 2-3' (H223364-10)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2022	ND	1.92	96.0	2.00	9.82	
Toluene*	<0.050	0.050	08/02/2022	ND	2.01	100	2.00	9.43	
Ethylbenzene*	<0.050	0.050	08/02/2022	ND	2.00	100	2.00	9.37	
Total Xylenes*	<0.150	0.150	08/02/2022	ND	6.10	102	6.00	8.83	
Total BTEX	<0.300	0.300	08/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2022	ND	211	106	200	3.29	
DRO >C10-C28*	<10.0	10.0	08/02/2022	ND	221	111	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	08/02/2022	ND					
Surrogate: 1-Chlorooctane	82.7	% 43-149)						
Surrogate: 1-Chlorooctadecane	93.5	% 42.5-16	1						

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Celey D. Keene, Lab Director/Quality Manager



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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Gall To. Sample Name: Current Name: 19: Multi Num: Sale: To: Sale: Sale: To: <	Isting 393-3238 FAX (strip) 393-2478 SILL TO ANALYSIS RECUEST Erschum, LLC F0.ft F0.ft Company: U Muniful St. Suite 400 Company: None 5 U Valuation 5 Suite 70 Res: U Valuation 5 Res: Res: U Res: Res: U Res: Res: <th>TIME So So So TIME P BT BT</th> <th>LI X LI X LI X LI X LI X LI X LI X LI X</th> <th>tor control 2</th> <th>Relinquished By: Strangth Relinquished By:</th>	TIME So So So TIME P BT	LI X LI X LI X LI X LI X LI X LI X LI X	tor control 2	Relinquished By: Strangth Relinquished By:
Erischurn, LLC BILL TO AMALYSIS REQUEST Brave Verlage State: Top: 747701 Am: N Marwick St. Suite: Uo Company: N Marwick St. Suite: Top: 747701 Am: State: Top: 747701 Am: N Marwick St. Suite: Top: 747701 Am: State: Top: 747701	Bits Sample First year Bits Po. # Barus Same Tx, Zip: Y4700 Attr:: Attr:: J J J First year Attr:: J J First year Attr:: Attr:: J J First year Attr:: Attr:: J J First year Attr:: Attr:: BIH 17052 Propertion Attr:: Attr:: BIH 170 Attr:: Attr:: Attr:: BIH 170 Propering Bits:: Attr:: BIH 170 Propering Bits:: Attr:: BIH 170 Propering:: Attr:: Attr:: BIH 170 Propering:: Attr:: Attr:: BIH 170 Propering:: Propering:: Attr:: BIH 170 Propering:: Propering:: Propering:: BIH 170 Propering:: Proper	TIME P F B O 07837 X X X 1015 X X X 1050 X X X 1050 X X X 1051 X X X 1052 X X X 1053 X X <th>G II X G II X G</th> <th>2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</th> <th>linquished By:</th>	G II X G	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	linquished By:
Erischum, LLC BILL TO ANALYSIS RECUEST Bauw, Conflin, D. Sale: T, Zip: Y470 Attre: Company: Address: BiH119652 Project Owner: Lost Tork 4 Ed. #0000 Image: BiH119652 North D - 5: Generalized Minor Sample I.D. Baw, Conflin, D - 5: Generalized BiH19652 Project Owner: Date: BiH119652 Bital: Zip: Project Owner: Lost Tork 4 Ed. #0000 Bital: Zip: Project Owner: Lost Tork 4 Ed. #0000 Bital: Zip: Project Owner: Lost Tork 4 Ed. #0000 Bital: Zip: Project Owner: Lost 1 Ed. #0000 Bital: Zip: Project Owner: Bital: Zip: Project Owner: Lost 1 Ed. #0000 Bital: Zip: Project Owner: Lost 2 Ed. #1 Attre: Zip: Project Owner: Bital: Zip: Sign 1 Ed. #1 Attre: Zip: Project Owner: Sign 2 Own	Bits BitL TO ANALYSIS Exclorent, LLC State: 1, 21p: 747-01 Atm: J. M. Munifeliti St. Suite: 1, 21p: 747-01 Atm: J. Sille: 1, 21p: 747-01 Atm: Lost: 1, 21p: 747-01 Atm: J. Sille: 1, 21p: 747-01 Atm: Lost: 1, 21p: 747-01 Atm: 747-01 Lost: 21p: 74p: 747-01 Atm: 749-02 Lost: 21p: 74p: 747-01 Atm: 749-02 Lost: 21p: 74p: 747-01 Atm: 749-02 Lost: 21p: 74p:	TIME P SO SO TIME P B SO P 07837 X X X P 07837 X X X P 07850 X X X P 07853 X X X P 07900 X X X P 0700 X X X P 1050 X X P P <tr< th=""><th>G I X G I X</th><th>2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 1 2 2 1</th><th>linquished By:</th></tr<>	G I X G I X	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 1 2 2 1	linquished By:
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ENSOLUM

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

Page 56 of 135

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	nAPP2219337009
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Oxy USA Inc.	OGRID: 16696	
Contact Name: Wade Dittrich	Contact Telephone: 575-390-2828	
Contact email: wade_dittrich@oxy.com	Incident # (assigned by OCD)	
Contact mailing address: PO Box 4294, Houston, TX 77		

Location of Release Source

Latitude 32.42112

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Lost Tank 4 Fed. #0009	Site Type: Well Pad	
Date Release Discovered: 7/4/2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County	
G	4	22S	31E	Eddy	

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

🔀 Crude Oil	Volume Released (bbls): 3	Volume Recovered (bbls): 0			
Produced Water	Volume Released (bbls): 12	Volume Recovered (bbls): 0			
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No			
Condensate	Volume Released (bbls)	Volume Recovered (bbls)			
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)			
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)			

Cause of Release: Stuffing box on wellhead, packing failure.

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Form C-141 Page 2

State of New Mexico **Oil Conservation Division**

nAPP2219337009

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🖾 No	
If YES, was immediate n	otice 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

 \boxtimes The source of the release has been stopped.

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

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

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

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Wade Dittrich

Signature:

email: wade_dittrich@oxy.com

Title: Environmental Specialist

Date:

Telephone: 575-390-2828

OCD Only

Received by: _

Received by OCD: 12/29/2022 8:20:31 PM

Date:

State of New Mexico **Oil Conservation Division**

Incident ID	nAPP2219337009
District RP	
Facility ID	
Application ID	

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Site Assessment/Characterization

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

	and the second sec
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?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. X Field data

- \boxtimes Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
 - Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- X Boring or excavation logs

8-20-31 PN

Borne Photographs including une -----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 technique, proposed sampling plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan. That plan must include the estimated volume of material to be remediated. The closure criteria for a release are contained in Table 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters. If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation Received by OCD:

orm C-141 Ige 4	State of New Mexico	Incident ID	nAPP2219337009
age 4	Oil Conservation Division	District RP	111112217557007
		Facility ID	
		Application ID	
and/or regulations.	ate and remediate contamination that pose a threat to gro a C-141 report does not relieve the operator of responsi-	pility for compliance with any other	lith or the environment. In r federal, state, or local laws
and/or regulations.	a C-141 report does not relieve the operator of responsi	bility for compliance with any other Environmental Specialist	Ith or the environment. In
and/or regulations. Printed Name: <u>Wade Dittr</u> Signature:	Title:	pility for compliance with any other	lith or the environment. In
	Title:	Environmental Specialist	lith or the environment. In

orm C-141 Page 5

State of New Mexico **Oil Conservation Division**

Incident ID	nAPP2219337009
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan. Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC \boxtimes 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: Wade Dittrich Title: Environmental Specialist -22 Date: Signature: Telephone: 575-390-2828 email: wade_dittrich@oxy.com **OCD** Only Received by: _ Date: Approved with Attached Conditions of Approval Approved Denied Deferral Approved Signature: Date: Released to Imaging: 1/25/2023 2:34:10 PM

ENSOLUM

APPENDIX C

Photographic Documentation



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



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



View of release area during excavation activities, facing south.



View of release area during excavation activities, facing northwest.

ENSOLUM

APPENDIX D

Tables

🔁 ENSOLUM

I ABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Lost Tank 4 Fed. #0009 Oxy USA Inc. Eddy County, New Mexico Ensolum Project No. 03B1417052											
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO+DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
	Conservation Soils Impacted (> 100 feet)	Division Closure by a Release	10	NE	NE	NE	50	1,000	NE	2,500	20,000
						le Analytical Re					
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SP-1	7/29/2022	1 - 2	<0.050	<0.050	<0.050	<0.150	<0.300	81.1	21.8	103	14,000
		2 - 3	< 0.050	<0.050	<0.050	<0.150	<0.300	84.8	17.4	102	2,680
SP-2	7/29/2022	0 - 1 1 - 2	<0.050 <0.050	<0.050 <0.050	<0.050	<0.150 <0.150	<0.300	<10.0	<10.0 <10.0	<10.0	6,000
5P-2	1/29/2022	2 - 3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	9,000
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FS-1	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	1,330
FS-2	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	608
FS-3	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	80.0
FS-4	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	896
FS-5	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	592
FS-6	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	1,570
FS-7	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	784
FS-8	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	3,560
FS-9	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	672
FS-10	10/11/2022	1	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	2,000
FS-11	10/11/2022	1	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	2,400
FS-12	10/11/2022	1	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	4,280
FS-13	10/11/2022	1	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	672
FS-14	10/11/2022	1	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	800
FS-15	10/11/2022	1	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	192
FS-16	10/11/2022	1	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	448
FS-17	10/11/2022	1	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	640
FS-18	10/11/2022	1	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	128
FS-19	10/11/2022	1	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	512
FS-20	10/11/2022	1	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	400
FS-21	10/11/2022	1	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	1,040
FS-22	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	800
FS-23	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	576
FS-24	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	30.5	<10.0	30.5	896
FS-25	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	128
FS-26	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	640
FS-27	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	992
FS-28	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	448
FS-29	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	4,800
FS-30	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	21.2	<10.0	21.2	1,560
					Delineation Sam	ple Analytical F	Results				
NORTH	7/29/2022	0 - 0.5	<0.050	<0.050	<0.050	<0,150	<0.300	<10.0	<10.0	<10.0	880
NORTH-2	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	80.0
WEST	7/29/2022	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	80.0
WEST-2	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<16.0
EAST	7/29/2022	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	2,400	<10.0	2,400	224
EAST-2	10/11/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	54.8	<10.0	54.8	560
SOUTH	7/29/2022	0 - 0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0
SOUTH-2	10/11/2022		< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.0

TABLE 1

Concentrations in **bold** and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (>100 feet)

 Over Ecavated 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

ENSOLUM

APPENDIX E

Laboratory Data Sheets and Chain-of-Custody Documentation



August 04, 2022

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

RE: LOST TANK 4 FED. # 0009

Enclosed are the results of analyses for samples received by the laboratory on 07/29/22 12:20.

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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: NORTH 0-.5' (H223364-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	ND	243	121	200	1.83	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	252	126	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					
Surrogate: 1-Chlorooctane	94.2	% 43-149)						
Surrogate: 1-Chlorooctadecane	87.9	% 42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: WEST 0-.5' (H223364-02)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	ND	243	121	200	1.83	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	252	126	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					
Surrogate: 1-Chlorooctane	93.7	% 43-149)						
Surrogate: 1-Chlorooctadecane	87.6	% 42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: EAST 0-.5' (H223364-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d 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	08/03/2022	ND	243	121	200	1.83	
DRO >C10-C28*	2400	10.0	08/03/2022	ND	252	126	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					
Surrogate: 1-Chlorooctane	98.3	% 43-149	,						
Surrogate: 1-Chlorooctadecane	173 9	42.5-16	1						

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SOUTH 0-.5' (H223364-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.4	% 69.9-14	0						
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	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	ND	243	121	200	1.83	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	252	126	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					
Surrogate: 1-Chlorooctane	95.3	% 43-149)						
Surrogate: 1-Chlorooctadecane	90.9	% 42.5-16	1						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SP - 1 0-1' (H223364-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.0	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15200	16.0	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2022	ND	211	106	200	3.29	
DRO >C10-C28*	94.0	10.0	08/02/2022	ND	221	111	200	3.14	
EXT DRO >C28-C36	28.0	10.0	08/02/2022	ND					
Surrogate: 1-Chlorooctane	72.3	% 43-149							
Surrogate: 1-Chlorooctadecane	87.2	% 42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SP - 2 0-1' (H223364-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2022	ND	211	106	200	3.29	
DRO >C10-C28*	<10.0	10.0	08/02/2022	ND	221	111	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	08/02/2022	ND					
Surrogate: 1-Chlorooctane	86.7	% 43-149)						
Surrogate: 1-Chlorooctadecane	99.4	% 42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SP - 1 1-2' (H223364-07)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2022	ND	211	106	200	3.29	
DRO >C10-C28*	81.1	10.0	08/02/2022	ND	221	111	200	3.14	
EXT DRO >C28-C36	21.8	10.0	08/02/2022	ND					
Surrogate: 1-Chlorooctane	87.4	% 43-149)						
Surrogate: 1-Chlorooctadecane	103 9	% 42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SP - 2 1-2' (H223364-08)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9000	16.0	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2022	ND	211	106	200	3.29	
DRO >C10-C28*	<10.0	10.0	08/02/2022	ND	221	111	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	08/02/2022	ND					
Surrogate: 1-Chlorooctane	86.9	% 43-149)						
Surrogate: 1-Chlorooctadecane	100 \$	42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SP - 1 2-3' (H223364-09)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2022	ND	1.92	96.0	2.00	9.82	
Toluene*	<0.050	0.050	08/02/2022	ND	2.01	100	2.00	9.43	
Ethylbenzene*	<0.050	0.050	08/02/2022	ND	2.00	100	2.00	9.37	
Total Xylenes*	<0.150	0.150	08/02/2022	ND	6.10	102	6.00	8.83	
Total BTEX	<0.300	0.300	08/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2022	ND	211	106	200	3.29	
DRO >C10-C28*	84.8	10.0	08/02/2022	ND	221	111	200	3.14	
EXT DRO >C28-C36	17.4	10.0	08/02/2022	ND					
Surrogate: 1-Chlorooctane	83.0	% 43-149)						
Surrogate: 1-Chlorooctadecane	100 9	42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SP - 2 2-3' (H223364-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2022	ND	1.92	96.0	2.00	9.82	
Toluene*	<0.050	0.050	08/02/2022	ND	2.01	100	2.00	9.43	
Ethylbenzene*	<0.050	0.050	08/02/2022	ND	2.00	100	2.00	9.37	
Total Xylenes*	<0.150	0.150	08/02/2022	ND	6.10	102	6.00	8.83	
Total BTEX	<0.300	0.300	08/02/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/02/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2022	ND	211	106	200	3.29	
DRO >C10-C28*	<10.0	10.0	08/02/2022	ND	221	111	200	3.14	
EXT DRO >C28-C36	<10.0	10.0	08/02/2022	ND					
Surrogate: 1-Chlorooctane	82.7	% 43-149							
Surrogate: 1-Chlorooctadecane	93.5	% 42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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APPENDIX F

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<u>District I</u>
 <u>1625</u> N. French Dr., Hobbs, NM 88240
 <u>District II</u>
 811 S. First St., Artesia, NM 88210
 <u>District III</u>
 1000 Rio Brazos Road, Aztec, NM 87410
 <u>District IV</u>
 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

Incident ID	nAPP2219337009
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Oxy USA Inc.	OGRID: 16696
Contact Name: Wade Dittrich	Contact Telephone: 575-390-2828
Contact email: wade_dittrich@oxy.com	Incident # nAPP2219337009
Contact mailing address: PO Box 4294, Houston, TX 77210	

Location of Release Source

Latitude 32.42112

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Lost Tank 4 Fed. #0009	Site Type: Well Pad
Date Release Discovered: 7/4/2022	API# 30-015-37953

Unit Letter	Section	Township	Range	County
G	4	22S	31E	Eddy

Surface Owner: State Federal Tribal Private (Name: _____

Nature and Volume of Release

Mate	rial(s) Released (Select all that apply and attach calculations or specif	ic justification for the volumes provided below)
Crude Oil	Volume Released (bbls): 3	Volume Recovered (bbls): 0
Produced Water Volume Released (bbls): 12		Volume Recovered (bbls): 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Stuffing box on wellhead, packing failure.

orm C-141	State of New Mexico	Incident ID	nAPP2219337009
age 2	Oil Conservation Division	District RP	IIAI 1 2219337009
		Facility ID	
		Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC? Yes No If YES, was immediate r	If YES, for what reason(s) does the responsible party		
	Initial Response		
		could create a safety hazard that would	

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

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

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: Wade Dittrich

Signature:

email: wade_dittrich@oxy.com

Title: Environmental Specialist

Date: 12-2922

Telephone: 575-390-2828

Date:

OCD Only

Received by OCD: 12/29/2022 8:20:31 PM

Received by: _____

Released to Imaging: 1/25/2023 2:34:10 PM

Form C-141

State of New Mexico **Oil Conservation Division**

Incident ID	nAPP2219337009
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data

Data table of soil contaminant concentration data

- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-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

🕅 the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation an. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 9.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

vF	Form C-141	State of New Mexico			
Form C-141 Page 4				Incident ID	nAPP2219337009
y'	age 4	Oil Conservation Division	Oil Conservation Division	District RP	
84				Facility ID	
Page				Application ID	
P	I hereby certify that the information regulations all operators are required public health or the environment. T failed to adequately investigate and addition, OCD acceptance of a C-14 and/or regulations.	ications and perform CD does not relieve at to groundwater, so	n corrective actions for rele the operator of liability sho urface water, human health	ases which may endanger ould their operations have or the environment. In	
	Printed Name: Wade Dittrich	1	Title: Environm	ental Specialist	
	Signature:	ut	Date: 12-2	29.22	
	email: <u>wade_dittrich@oxy.com</u>		Telephone: 575	5-390-2828	
	OCD Only				
	Received by: Jocelyn Ha	arimon	Date:	12/30/2022	

Form C-141 Page 6

Page 85

State of New Mexico Oil Conservation Division

Incident ID	nAPP2219337009
District RP	
Facility ID	
Application ID	

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: Wade Dittrich Signature:

.

email: wade_dittrich@oxy.com

Title: Environmental Specialist

Date: 12-29-22

Telephone: <u>575-390-2828</u>

OCD Only

Received by OCD: 12

Received by: _____

Jocelyn Harimon

12/30/2022 Date:

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 Approv	red by:	Date:	01/25/2023
5	Jennifer Nobui	Title:	Environmental Specialist A



October 17, 2022

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

RE: LOST TANK 4 FED. # 0009

Enclosed are the results of analyses for samples received by the laboratory on 10/12/22 9:30.

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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 1 1' (H224784-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/14/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/14/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	10/13/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	76.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.6	% 46.3-17	0						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 2 1' (H224784-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/14/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	10/13/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	83.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	99.8	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 3 1' (H224784-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/14/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/13/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	86.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	101	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 4 1' (H224784-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/14/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	10/13/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	88.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 5 1' (H224784-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/14/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	10/13/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	87.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 6 1' (H224784-06)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/14/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	10/13/2022	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	82.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	97.6	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 7 1' (H224784-07)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/14/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	10/13/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	98.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	117 9	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 8 1' (H224784-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/15/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	10/13/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	82.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.8	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 9 1' (H224784-09)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/15/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	10/13/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	91.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	108	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 10 1' (H224784-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/15/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	10/13/2022	ND	400	100	400	3.92	QR-03
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	96.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	113 9	% 46.3-17	8						

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Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 11 1' (H224784-11)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/15/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	10/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	78.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.2	% 46.3-17	8						

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Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 12 1' (H224784-12)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/15/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4280	16.0	10/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	82.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	98.1	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 13 1' (H224784-13)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/15/2022	ND	2.12	106	2.00	7.15	
Toluene*	<0.050	0.050	10/15/2022	ND	2.10	105	2.00	8.34	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	2.06	103	2.00	6.94	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.30	105	6.00	7.32	
Total BTEX	<0.300	0.300	10/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	10/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	90.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	106	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 14 1' (H224784-14)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.34	117	2.00	0.319	QM-07
Toluene*	<0.050	0.050	10/14/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.3	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	10/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	94.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	112 9	% 46.3-17	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 15 1' (H224784-15)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.34	117	2.00	0.319	
Toluene*	<0.050	0.050	10/14/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	92.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	109	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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MIDLAND TX, 79705	
Fax To:	

Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 16 1' (H224784-16)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.34	117	2.00	0.319	
Toluene*	<0.050	0.050	10/14/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	10/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	230	115	200	1.24	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	244	122	200	0.648	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	88.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	105	% 46.3-17	8						

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

Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 17 1' (H224784-17)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.34	117	2.00	0.319	
Toluene*	<0.050	0.050	10/14/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.2	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	10/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	206	103	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	211	105	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	102	45.3-16	1						
Surrogate: 1-Chlorooctadecane	108	46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 18 1' (H224784-18)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.34	117	2.00	0.319	
Toluene*	<0.050	0.050	10/14/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	206	103	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	211	105	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	98.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	106	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 19 1' (H224784-19)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.34	117	2.00	0.319	
Toluene*	<0.050	0.050	10/14/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	10/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	206	103	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	211	105	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	99.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	105	% 46.3-17	8						

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Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 20 1' (H224784-20)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.34	117	2.00	0.319	
Toluene*	<0.050	0.050	10/14/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.0	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	206	103	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	211	105	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	102	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	106	% 46.3-17	8						

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Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 21 1' (H224784-21)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.34	117	2.00	0.319	
Toluene*	<0.050	0.050	10/14/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	10/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	206	103	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	211	105	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	87.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	92.1	% 46.3-17	8						

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Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 22 1' (H224784-22)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.34	117	2.00	0.319	
Toluene*	<0.050	0.050	10/14/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	10/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	206	103	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	211	105	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	97.2	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	102 9	46.3-17	8						

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Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 23 1' (H224784-23)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.34	117	2.00	0.319	
Toluene*	<0.050	0.050	10/14/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	10/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	206	103	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	211	105	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	91.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.1	% 46.3-17	8						

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Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 24 1' (H224784-24)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.34	117	2.00	0.319	
Toluene*	<0.050	0.050	10/14/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	10/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	206	103	200	2.48	
DRO >C10-C28*	30.5	10.0	10/13/2022	ND	211	105	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	99.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103	% 46.3-17	8						

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Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 25 1' (H224784-25)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.34	117	2.00	0.319	
Toluene*	<0.050	0.050	10/14/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	206	103	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	211	105	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	102	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	105	% 46.3-17	8						

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Fax To:	

Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 26 1' (H224784-26)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	2.34	117	2.00	0.319	
Toluene*	<0.050	0.050	10/15/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	10/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	206	103	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	211	105	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	105	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	109	% 46.3-17	8						

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Fax To:	

Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 27 1' (H224784-27)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.34	117	2.00	0.319	
Toluene*	<0.050	0.050	10/14/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.2	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	10/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	206	103	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	211	105	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	100	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	103	% 46.3-17	8						

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Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 28 1' (H224784-28)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.34	117	2.00	0.319	
Toluene*	<0.050	0.050	10/14/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	10/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	206	103	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	211	105	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	101	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	105	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 29 1' (H224784-29)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.34	117	2.00	0.319	
Toluene*	<0.050	0.050	10/14/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	10/13/2022	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	206	103	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	211	105	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	100	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	105	% 46.3-17	8						

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Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: FS - 30 1' (H224784-30)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.34	117	2.00	0.319	
Toluene*	<0.050	0.050	10/14/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1560	16.0	10/13/2022	ND	432	108	400	0.00	QM-07
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	206	103	200	2.48	
DRO >C10-C28*	21.2	10.0	10/13/2022	ND	211	105	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	104	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	111 9	% 46.3-17	8						

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BEAUX JENNINGS
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MIDLAND TX, 79705
Fax To:

Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: NORTH - 2 1' (H224784-31)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.34	117	2.00	0.319	
Toluene*	<0.050	0.050	10/14/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/13/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	206	103	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	211	105	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	81.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	84.6	% 46.3-17	8						

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MIDLAND TX, 79705
Fax To:

Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: EAST - 2 1' (H224784-32)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.34	117	2.00	0.319	
Toluene*	<0.050	0.050	10/14/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.6	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/13/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	206	103	200	2.48	
DRO >C10-C28*	54.8	10.0	10/13/2022	ND	211	105	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	85.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	92.4	% 46.3-17	8						

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

Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: SOUTH - 2 1' (H224784-33)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2022	ND	2.34	117	2.00	0.319	
Toluene*	<0.050	0.050	10/14/2022	ND	2.24	112	2.00	0.849	
Ethylbenzene*	<0.050	0.050	10/14/2022	ND	2.18	109	2.00	0.362	
Total Xylenes*	<0.150	0.150	10/14/2022	ND	6.62	110	6.00	1.46	
Total BTEX	<0.300	0.300	10/14/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/13/2022	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	206	103	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	211	105	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	88.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.9	% 46.3-17	8						

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

Received:	10/12/2022	Sampling Date:	10/11/2022
Reported:	10/17/2022	Sampling Type:	Soil
Project Name:	LOST TANK 4 FED. # 0009	Sampling Condition:	Cool & Intact
Project Number:	03B1417052	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY		

Sample ID: WEST - 2 1' (H224784-34)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2022	ND	2.00	100	2.00	3.95	
Toluene*	<0.050	0.050	10/15/2022	ND	2.14	107	2.00	2.81	
Ethylbenzene*	<0.050	0.050	10/15/2022	ND	2.02	101	2.00	4.35	
Total Xylenes*	<0.150	0.150	10/15/2022	ND	6.04	101	6.00	4.15	
Total BTEX	<0.300	0.300	10/15/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/13/2022	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/13/2022	ND	206	103	200	2.48	
DRO >C10-C28*	<10.0	10.0	10/13/2022	ND	211	105	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	10/13/2022	ND					
Surrogate: 1-Chlorooctane	94.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	92.5	% 46.3-17	8						

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Notes and Definitions

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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Sampler - UPS - Bus - Ot		Relinquished By:	5	Relinquished By:	analyses. All claims including th service, in no event shall Cardin	PLEASE NOTE: Liability and D	0/	9	~	7	6	S	4	US	2)	TOLEDAN			T ON DD USE ONLY		Complete Location:	Project I ocation	Project Name:		D #:	City: Midland	Address: 601	Project Manager:	Company Name:	2
her:	É		h	ng out of or related to the performance o V:	hose for negligence and any other ca hal be liable for incidental or consequ	amages. Cardinal's liability and clien					FS- 6	FS- C	FS- 4	FS- 3	FS- 2			Sample I.D.			Samantha MacKenzie	Eddy County			03R1417052	210-210-8858		601 N. Marienfeld St. STE 400	-		abora
Observed Temp. °C 0.6 Corrected Temp. °C 0.0	Time: 0830		n	f services hereunder by Cardinu Date:	use whatsoever shall be deem	1' (4				ž	1'	1.	1.			Sample Depth (feet)	and the second se		æ		90	Project Owner:	Fax #:		State: TX	400		575) 393-2326 FAX (575) 393-2476 Ensolum 11.0	atorie
G Sample Condition Cool Intact Yes Yes No No No	Received By:	A	VACAINAD RA:	Aut limitation, business interruptions, loss al, regardless of whether such claim is b	analyses. All claims including those for negligence and any other cause whatever shall be deemed waived unless made in writing and received by Cardinal be liable for incidential or consequently damages including the deemed waived unless made in writing and received by Cardinal within 30 daws after composition or to the				-						C 1 X	1 ×	# C GR WA SO		RS	MATRIX						CID: 19/01				240 176	U L
Id Temp. °C O.6 Sample Condition CHECKED BY: Turnaround Time: Standard N N I Temp. °C O.6 Cool Intact (Initials) Thermometer ID #113 Cool Cool	Aller	pl X)	ss of use, or loss of profits incurred by based upon any of the above stated r	in contract or tort, shall be limited to the amount p writing and received by Cardinal within 30 days at	X 10/TTZZ		X 10/11/22	X 10/11/22	X 10/11/22	>	× 10/11/22	X 10/11/22		X 10/11/22	x I		HER : D/BASE: / COOL HER :		SERV.	Fax #:	Phone #: 575-390-2828	State: Zip:	City:	Address:	Attn: Wade Dittrich	Company: Oxy USA,		BILL		
Turnaround Time: Thermometer ID #1 Correction Factor -0	REMARKS:	BJennings@ensolum.com	Verbal Result: Verbal Results are emailed	of profits incurred by client, its subsidiaries, of the above stated reasons or otherwise.	ount paid by the client for the	1443	1442	-	1440	-	1438	X 4541 7	0Ch	1435		HSH	TIME	H 8015 M		SAMPLING		-2828					A, Inc.		10		CHAIN-OF
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Page 122 of 135

Released to Imaging: 1/25/2023 2:34:10 PM

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East Marl: '5) 393-23		
101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	DIN	
575) 393-	Orie	
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

8240 2476

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Page 124 of 135

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PLEASE NOTE: Lability and Damages. Cardina's liability and client's exclusive remedy for any daim arking whether based in contract or tort, shall be limited to the amount pad by the client for the analyses. At daims including those for negligence and any other cause whatboever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subaidiaries, **Relinquished By** Relinguished By: Project Location: Eddy County H124784 Sampler Name: Project Name: Lost Tank 4 Fed. #0009 City: Project #: 03B1417052 Phone #: Project Manager: Company Name: FOR LAB USE ONLY Address: Lab I.D. Midland 3 5 2 Cu 210-219-8858 601 N. Marienfeld St. STE 400 Samantha MacKenzie West-2 South-2 East-2 Sample I.D. North-2 Beaux Jennings NE Ensolum, LLC Time: 1600 Date: 10/11/22 Sample Depth Fax #: Project Owner: State: -*** 2/11/01 -tereunder by Ca (feet) X Received By: Zip: 00 (G)RAB OR (C)OMP 00 # CONTAINERS ----GROUNDWATER 79701 WASTEWATER SOIL MATRIX ×× × OIL rns, loss of use, or loss of profits incurred by client, its subsidiaries SLUDGE OTHER State: City: P.O. #: Fax #: Attn: Phone #: Company: Address: upon any of the above state ACID/BASE: PRESERV. Sa ICE / COOL × × Wade Dittrich OTHER BILL TO Oxy USA, 575-390-2828 3 K 10/11/22 10/11/22 Zip: 10/11/22 DATE SAMPLING Verbal Result: Ves No Add'I Phone #: All Results are emailed. Please provide Email address: Verbal Result: Inc BJennings@ensolum.com TIME 1504 1506 1507 × ×× × TPH 8015 M BTEX 8021 B ×× ×× Chlorides 4500 ×× ×× ANALYSIS REQUEST

Sampler - UPS - Bus - Other:

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Date: Time:

Received By:

Observed

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Corrected Temp, °C

Cool Intact Yes Yes No No

Sample Condition

CHECKED BY: (Initials)

Turnaround Time:

Standard

Bacteria (only) Sample Condition

Observed Temp. Corrected Temp. °C

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REMARKS:

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

Thermometer ID #113 Correction Factor -0.5°C

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Cool Intact Page 125 of 135

OSE POD Locations Map



1/25/2023, 2:36:23 PM

• Recently Edited PODs



SiteBoundaries

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0	0.02	0.04	0.09 mi
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0	0.04	0.07	0.15 km

Maxar, Microsoft, Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC



STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER ROSWELL

Mike A. Hamman, P.E.

State Engineer

DISTRICT II 1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521 Fax: (575) 623-8559

November 23, 2022

Oxy USA Inc. P.O. Box 4294 Houston, TX 77210

RE: Well Plugging Plan of Operations for well no. C-4686-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Well Plugging Plan of Operations form (WD-08) has been updated. Current form can be found on the OSE website at the following link <u>https://www.ose.state.nm.us/Statewide/wdForms.php</u>.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Sincerely,

Kashyap Parekh Water Resources Manager I



STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER ROSWELL 1900 West Second St. Roswell, New Mexico 88201 Phone: (575) 622-6521 Fax: (575) 623- 8559

Applicant has identified well, listed below, to be plugged. West Texas Water Well Service (WD-1184) will perform the plugging.

Permittee: Oxy USA Inc. NMOSE Permit Number: C-4686-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4686-POD1	Soil Boring	110.0	Unknown	32° 25' 16.032"	103° 46' 49.0794''

Specific Plugging Conditions of Approval for Well located in Eddy County.

- 1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
- 2. The total Theoretical volume of sealant required for abandonment is approximately 100 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 110 feet.
- 3. A Type I/II Portland cement mixed with 5.2 to 6.0 gallons of fresh water per 94-lb sack of cement is approved for the plugging the well.
- 4. Sealant shall be placed by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column upwards from below. Tremie pipe may be pulled as necessary to retain minimal submergence in the advancing column of sealant.
- 5. Should cement "shrinks-back" occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 3. of these Specific Conditions of Approval.

- 6. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.
- 7. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
- 8. NMOSE witnessing of the plugging of the shallow well will not be required.
- 9. Any deviation from this plan must obtain an approved variance from this office prior to implementation.
- 10. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 23rd day of November 2022

Mike A. Hamman, P.E. State Engineer

K.Parepl Bv:

Kashyap Parekh Water Resources Manager I



Page 1 of 5



7)	Inside diameter of innermost casing:N/Ainches.
8)	Casing material: N/A
9)	The well was constructed with: an open-hole production interval, state the open interval: a well screen or perforated pipe, state the screened interval(s):
10)	What annular interval surrounding the artesian casing of this well is cement-grouted?
11)	Was the well built with surface casing? <u>No</u> If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? <u>N/A</u> If yes, please describe:
12)	Has all pumping equipment and associated piping been removed from the well? <u>N/A</u> If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.
<u>V. DE</u>	SCRIPTION OF PLANNED WELL PLUGGING:
Note: If diagram	this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such ysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.
	his planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.
1)	Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology
	proposed for the well: The soil boring will be plugged tremie from bottom to a slurry of Portland TYPE I/II Neat cement in lifts
2)	Will well head be cut-off below land surface after plugging?
<u>VI. PL</u>	UGGING AND SEALING MATERIALS:
Note: Th from the	e plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.
1)	For plugging intervals that employ cement grout, complete and attach Table A.
2)	For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
3)	Theoretical volume of grout required to plug the well to land surface:
4)	Type of Cement proposed: Type I/II Neat Cement
5)	Proposed cement grout mix: <a>6.0 gallons of water per 94 pound sack of Portland cement.
6)	Will the grout be:batch-mixed and delivered to the siteX mixed on site
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N/A

7) Grout additives requested, and percent by dry weight relative to cement: N/A

8)

Additional notes and calculations:

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

Volumes calculated on an up to an approximate 6" boring.

VIII. SIGNATURE:

L Wade Dittrich

, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

10/19/2022

Signature of Applicant

Date

IX. ACTION OF THE STATE ENGINEER:

OSE 011 NOV 22 2022 en10:45

This Well Plugging Plan of Operations is:

Approved subject to the attached conditions. Not approved for the reasons provided on the attached letter.

Wovenber, 2022 A. Mannan Mantonio Jr. P.E., New Mexico State Engineer Witness my hand and official seal this day of Mike KASHYAP PAREKH W. R.M. I By: WD-08 Well Plugging Plan Version: July 31, 2019 Page 3 of 5

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TABLE A - For plugging intervals that employ cen	ment grout. Start with deepest
interval.	

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	N/A	N/A	0
Bottom of proposed interval of grout placement (ft bgl)	N/A	N/A	100
Theoretical volume of grout required per interval (gallons)	N/A	N/A	50
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	N/A	N/A	<6.0
Mixed on-site or batch- mixed and delivered?	N/A	N/A	On-site
Grout additive 1 requested	N/A	N/A	N/A
Additive 1 percent by dry weight relative to cement	N/A	N/A	N/A
Grout additive 2 requested	N/A	N/A	N/A
Additive 2 percent by dry weight relative to cement	N/A	N/A	N/A

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TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	N/A	N/A	0
Bottom of proposed sealant of grout placement (ft bgl)	N/A	N/A	10
Theoretical volume of sealant required per interval (gallons)	N/A	N/A	52
Proposed abandonment sealant (manufacturer and trade name)	N/A	N/A	Bariod Hole Plug

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

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

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	171246
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	1/25/2023

Page 135 of 135 CONDITIONS

Action 171246