



CLOSURE REPORT

Property:

DR PI Federal Unit 18 7 IPP #022H

Unit M, S18, T22S, R32E 32.3856° N, 103.7201° W Lea County, New Mexico API: 30-025-48157 NMOCD Incident ID: nAPP2407545309

December 2, 2024

Ensolum Project No. 03B1417160

Prepared for:

Oxy USA, Inc. PO Box 4324 Houston, Texas 77210

Attn: Wade Dittrich

Prepared by:

elly/Lowery, GIT Project Geologist

Beaux Jenhings Associate Principal

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants

601 N Marienfeld Street, Suite 400 | Midland, TX 79701 | ensolum.com

TABLE OF CONTENTS

1.0	INTR	ODUCTION	.1
	1.1	Site Description and Background	.1
	1.2	Project Objective	.1
2.0	CLOS		.2
3.0	SOIL	REMEDIATION ACTIVITIES	.3
4.0	SOIL	SAMPLING PROGRAM	.4
5.0	SOIL	LABORATORY ANALYTICAL METHODS	.4
6.0	DATA	EVALUATION	.4
7.0	RECL	AMATION AND REVEGETATION	.5
8.0	FIND	INGS AND RECOMMENDATION	.5
9.0	STAN	IDARDS OF CARE, LIMITATIONS, AND RELIANCE	.6
	9.1	Standard of Care	.6
	9.2	Limitations	.6
	9.3	Reliance	.6

LIST OF APPENDICES

- Appendix B: Supporting Documentation
- Appendix C: Photographic Documentation
- Appendix D: Tables
- Appendix E: Laboratory Analytical Reports & Chain-of-Custody Documentation



Page 3 of 116 October 3, 2024

Page 1

CLOSURE REPORT

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Ensolum Project No. 03B1417160

1.0 INTRODUCTION

1.1 Site Description and Background

Operator:	OXY USA, Inc. (Oxy)
Site Name:	DR PI Federal Unit 18 7 IPP #022H
Location:	Unit M, Section 18, Township 22 South, Range 32 East American Petroleum Institute (API): 30-025-48157 32.3856° N, 103.7251° W Lea County, New Mexico
Property:	Federal land managed by the Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On March 5, 2024, Oxy had a release of produced water at the Site from a frac tank. Approximately 20 barrels (bbls) of produced water released onto the ground surface, with approximately 10 bbls of produced water recovered. Oxy reported the release to the New Mexico EMNRD OCD online portal notification of release (NOR) form on March 15, 2024. The release was subsequently assigned Incident Number nAPP2407545309.

The **Topographic Map** depicting the Site's location is included in **Figure 1**, and the **Site Vicinity Map** is included in **Figure 2** in **Appendix A**.

1.2 **Project Objective**

The primary objective of the closure activities was to reduce chemicals of concern (COC) concentrations in the on-Site soil to comply with 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 New Mexico Administrative Code (NMAC) 19.15.29 *Releases,* which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum, LLC (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. Supporting documentation and figures associated with the following bullets are provided in **Appendix B** and included as **Figure 4** in **Appendix A**.

- Two exploratory water wells were identified within a 0.5-mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database (C-02939 and C-02739). Livestock water well C-02739 appears only to have an application with no well record associated with it; however, livestock water well C-02939 has a well record with an installation date of 2003 to a depth of 280 feet below ground surface (bgs) as a temporary well, with no groundwater encountered. Additionally, there is one temporary well approximately 0.53 miles east of the Site installed in 2022 by Trinity Oilfield Services to a total depth of 110' with no groundwater encountered.
- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a 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 households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database, no freshwater wells are identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to New Mexico Statute Annotated (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 Geographical Information System (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, also referred to as high karst potential.
- The Site is not located within a 100-year floodplain.

Based on the identified siting criteria, the regional depth to groundwater, and the location of the release on an active production pad, cleanup goals for soils remaining in place at the Site include:



Oxy USA, Inc. Closure Report DR PI Federal Unit 18 7 IPP #022H

Page 3

CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE (NON-VEGETATIVE ZONE)							
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/I TDS	Constituent	Method	Limit				
	Chloride	EPA 300.0 or SM4500 CI 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	50 mg/kg				
	Benzene	EPA SW-846 Method 8021B or	10 mg/kg				

CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE (VEGETATIVE ZONE)								
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/I TDS	Constituent	Method	Limit					
	Chloride	EPA 300.0 or SM4500 CI B	600 mg/kg					
≤50 feet	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg					
	BTEX	EPA SW-846 Method 8021B or	50 mg/kg					
	Benzene	EPA SW-846 Method 8021B or	10 mg/kg					

3.0 SOIL REMEDIATION ACTIVITIES

On March 5, 2024, Oxy had a release of produced water at the Site from a frac tank. Approximately 20 bbls of produced water released onto the ground surface, with approximately 10 bbls of produced water recovered.

On July 11, 2024, Ensolum arrived on-Site to collect 31 composite soil samples (FS01 through FS31) from 31 locations within the release area at a depth of 0.5 feet bgs. Based on laboratory analytical data, additional excavation and/or remediation was necessary.

On August 21, 2024, subsequent to the completion of remediation activities, Ensolum arrived on-Site to collect 11 composite soil re-samples from the excavation floor (FS-05, FS-09, FS-10, FS-



11, FS-13, FS-16, FS-19, FS-20, FS-25, FS-26, and FS-27) at depths ranging from 1 to 1.5 feet bgs. In addition, Ensolum collected a total of 11 composite sidewall soil samples (SW-01 through SW-11) from 11 locations at depths of 1 to 1.5 feet bgs. Based on laboratory analytical data, no additional excavation and/or remediation was necessary.

The final excavation area measured approximately 70 feet long and 100 feet wide at the maximum extents, with a depth ranging from 0.5 to 1.5 feet bgs.

The excavation measured approximately 6,231 square feet in arial extent. A total of 160 cubic yards (cy) of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the Lea Land Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was backfilled utilizing material purchased locally and recontoured to match pre-existing conditions.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the impacted soil and excavation extent with respect to the release (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

4.0 SOIL SAMPLING PROGRAM

Ensolum's soil sampling program from July 11, 2024, through August 21, 2024, included the collection of a total of 42 composite soil samples from 31 locations from the excavation floor (FS-01 through FS-31) and 11 composite soil samples from 11 locations from the excavation sidewalls (SW-01 through SW-11). Additionally, one composite soil sample was collected from the backfill material used at the Site (Lea Land Caliche Pit) on September 13, 2024.

The soil samples were collected and placed in laboratory-prepared glassware, labeled/sealed using laboratory-supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to Cardinal Laboratories in Hobbs, New Mexico, under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX following the United States Environmental Protection Agency (EPA) SW-846 Method 8021B, TPH GRO/DRO/MRO following EPA SW-846 Method 8015M/D, and chloride using SM4500CI-B.

Laboratory analytical results are summarized in **Table 1**, **Table 2**, and **Table 3** in **Appendix D**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix E**.

6.0 DATA EVALUATION

Ensolum compared the benzene, total BTEX, TPH-GRO/DRO/MRO, and chloride concentrations or laboratory sample detection limits (SDLs) associated with the soils remaining in place at the Site to the applicable NMOCD Closure Criteria. The final composite soil samples collected from the Non-Vegetative Zone were compared to the NMOCD Closure Criteria for Soils Impacted by a Release (Non-Vegetative Zone), while the final composite soil samples collected from the Vegetative Zones were compared to the NMOCD Closure Criteria for Soils Impacted by a Release (Vegetative Zone).

 Laboratory analytical results indicate benzene concentrations for the final composite soil samples collected from the excavation area, and the backfill material do not exceed the laboratory SDLs, which are below the NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).



- Laboratory analytical results indicated that total BTEX concentrations for the final composite soil samples collected from the excavation area and the backfill material do not exceed the laboratory SDLs, which are below the NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicated that combined TPH-GRO/DRO concentrations for the soils remaining in place at the Site in the Non-Vegetative Zone did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 1,000 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicated that combined TPH-GRO/DRO/MRO concentrations for the soils remaining in place at the Site Non-Vegetative Zone did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 2,500 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicated chloride concentrations for the soils remaining in place at the Site in the Non-Vegetative Zone did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 20,000 mg/kg for depth to groundwater >100 feet.
- Laboratory analytical results indicated that combined TPH-GRO/DRO/MRO concentrations for the soils remaining in place at the Site in the Vegetative Zone did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 100 mg/kg for depth to groundwater ≤50 feet.
- Laboratory analytical results indicated chloride concentrations for the soils remaining in place at the Site in the Vegetative Zone did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 600 mg/kg for depth to groundwater ≤50 feet.

Laboratory analytical results are summarized in Table 1, Table 2, and Table 3 in Appendix D.

7.0 RECLAMATION AND REVEGETATION

Subsequent to the final confirmation soil sampling results, the identified impacted soils were removed and taken off-Site for proper disposal. A composite soil sample was collected from the backfill material prior to use at the Site. The excavated area was backfilled with clean fill material and then contoured to the original surrounding grade. Since the release area was on an active facility pad in an area reasonably needed for production operations or subsequent drilling operations, no reclamation or re-vegetation was required at this time per 19.15.29.13 NMAC.

8.0 FINDINGS AND RECOMMENDATION

- On March 5, 2024, Oxy had a release of produced water at the Site from a frac tank. Approximately 20 bbls of produced water released onto the ground surface, with approximately 10 bbls of produced water recovered.
- Ensolum's soil sampling program from July 11, 2024, through August 21, 2024, included the collection of a total of 42 composite soil samples from 31 soil sample locations from the excavation floor (FS-01 through FS-31) and 11 soil samples from 11 locations from the excavation sidewalls (SW-01 through SW-11) for laboratory analysis. The composite floor samples were collected at depths ranging from 0.5 to 1.5 feet bgs, and the sidewall samples were collected at a depth ranging from 1.0 to 1.5 feet bgs. Additionally, one composite soil sample was collected from the backfill material used at the Site (Lea Land Caliche Pit) on September 13, 2024.

- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soil to be in compliance with applicable NMOCD Closure Criteria for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMAC 19.15.29 Releases as guidance.
- The final excavation area measured approximately 70 feet long and 100 feet wide at the maximum extents, with a depth ranging from 0.5 to 1.5 feet bgs.
- Based on laboratory analytical results, the final composite soil samples collected from the excavation floor and sidewalls and the backfill material did not exhibit benzene, total BTEX, TPH GRO/DRO/MRO, or chloride concentrations above the applicable NMOCD Closure Criteria.
- After confirmation sampling was completed, the backfill of the excavation was completed utilizing material purchased locally from the Lea Land Caliche Pit and recontoured to match pre-existing conditions.

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 in 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 of 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.



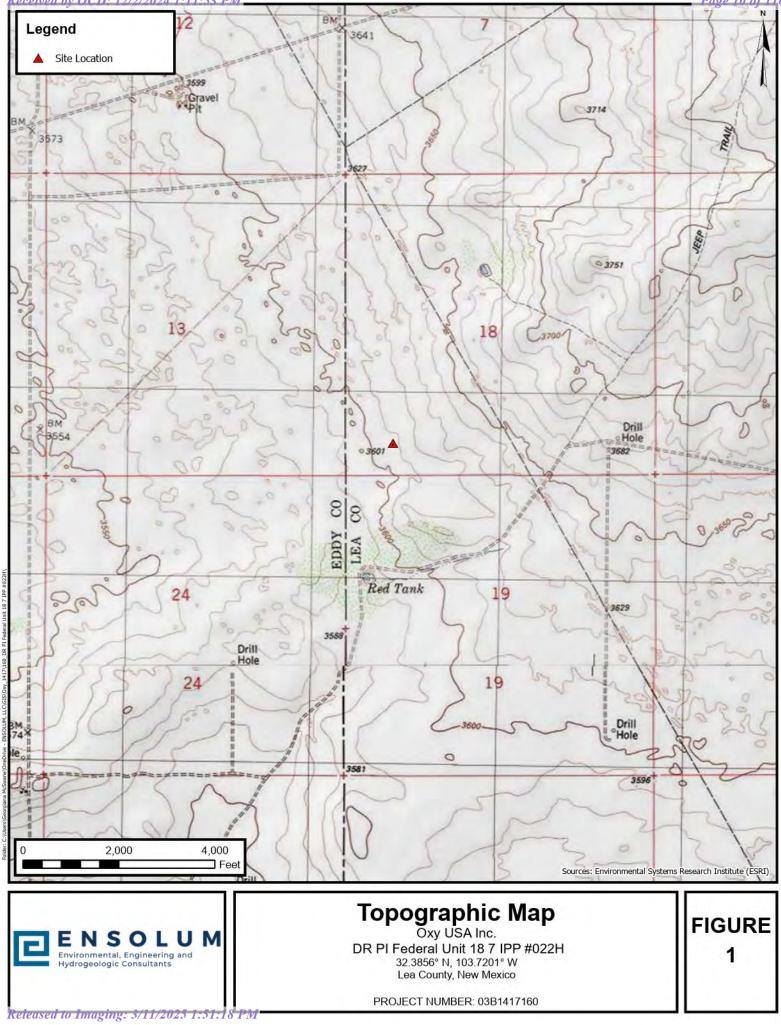


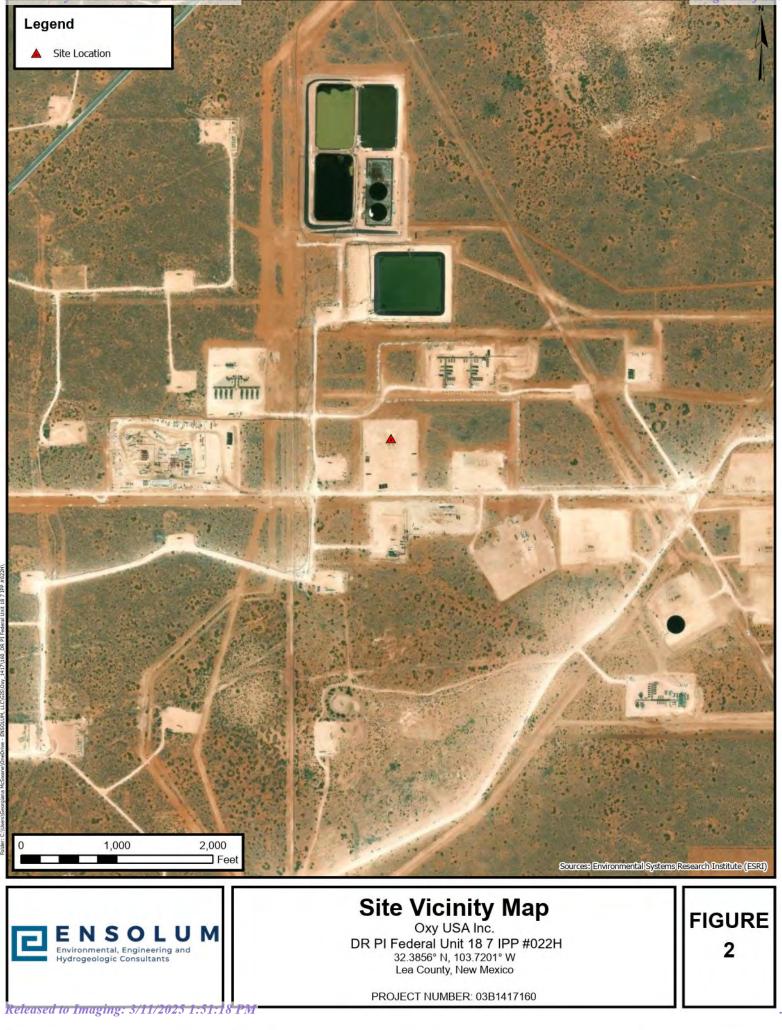
APPENDIX A

Figures

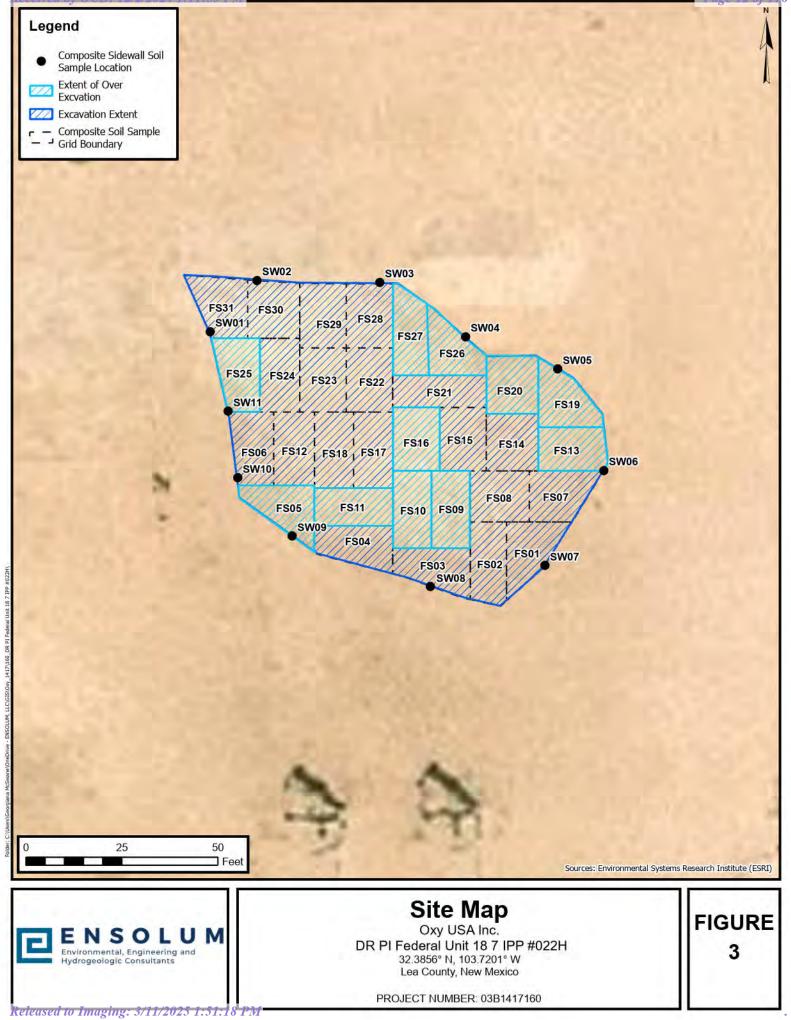
Received by OCD: 12/2/2024 1.11.53 PM

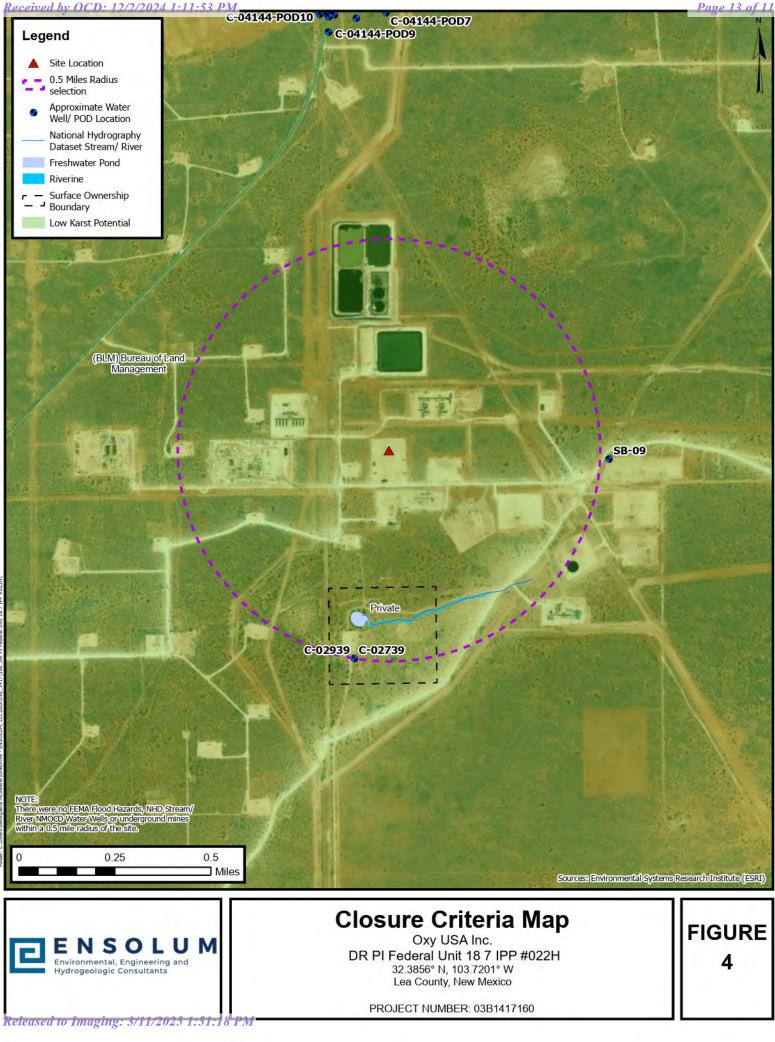
Page 10 of 116











Page 13 of 116



APPENDIX B

Supporting Documentation

Kelly Lowery

From:	Velez, Nelson, EMNRD <nelson.velez@emnrd.nm.gov></nelson.velez@emnrd.nm.gov>
Sent:	Tuesday, June 4, 2024 3:15 PM
То:	Kelly Lowery
Cc:	Wade Dittrich; Tyson Pierce; Beaux Jennings; Bratcher, Michael, EMNRD
Subject:	Re: [EXTERNAL] Extension Request: DR PI Federal Unit 18 7 IPP #022H (Incident ID:
	nAPP2407545309)

[**EXTERNAL EMAIL**]

Good afternoon Kelly,

Your 90-day time extension request is approved. Remediation Due date has been updated to September 3, 2024.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, June 3, 2024 8:43 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request: DR PI Federal Unit 18 7 IPP #022H (Incident ID: nAPP2407545309)

From: Kelly Lowery <klowery@ensolum.com> Sent: Monday, June 3, 2024 8:31 AM To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC)
<tyson_pierce@oxy.com>; Beaux Jennings <bjennings@ensolum.com>
Subject: [EXTERNAL] Extension Request: DR PI Federal Unit 18 7 IPP #022H (Incident ID: nAPP2407545309)

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

Good morning,

On behalf of Oxy USA, Inc, Ensolum, LLC would like to request a 90-day extension for the DR PI Federal Unit 18 7 IPP #022H (Incident ID: nAPP2407545309). Excavation activities are currently on-going at the Site but have been delayed due to scheduling challenges with personnel and contractors. We ask that you please approve this extension request for future sampling and subsequent reporting.

Please let us know if you have any questions.

Thank you,



Kelly Lowery

From:	Velez, Nelson, EMNRD <nelson.velez@emnrd.nm.gov></nelson.velez@emnrd.nm.gov>
Sent:	Thursday, September 5, 2024 1:28 PM
То:	Kelly Lowery
Cc:	Wade Dittrich; Tyson Pierce; Beaux Jennings; Bratcher, Michael, EMNRD
Subject:	Re: [EXTERNAL] Extension Request - DR PI Federal Unit 18 7 IPP #022H (Incident ID: nAPP2407545309)

[**EXTERNAL EMAIL**]

Good afternoon Kelly,

Thank you for the correspondence. Please accept my apology for the delay in response.

Your 90-day time extension request is approved. Remediation Due date has been updated to December 2, 2024.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Have a safe and pleasant day!

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.nm.gov/ocd_



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, August 30, 2024 11:06 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request - DR PI Federal Unit 18 7 IPP #022H (Incident ID: nAPP2407545309)

From: Kelly Lowery <klowery@ensolum.com>Sent: Friday, August 30, 2024 10:39 AMTo: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC)
<tyson_pierce@oxy.com>; Beaux Jennings <bjennings@ensolum.com>
Subject: [EXTERNAL] Extension Request - DR PI Federal Unit 18 7 IPP #022H (Incident ID: nAPP2407545309)

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

Good morning,

On behalf of Oxy USA, Inc., Ensolum, LLC would like to request a 90-day extension for the DR PI Federal Unit 18 7 IPP #022H (Incident ID: nAPP2407545309). Due to delays in scheduling with contractors and various team members, additional excavation activities at the Site have recently been completed to meet the Closure Criteria Limits specific to this location and pending analytical report, we will begin the drafting the Closure for this Site. We humbly ask for an extension so that we may wrap up the Site fully and complete the report so that it can be thoroughly reviewed before submitting the final copy to the portal. The site characterization for the incident was submitted to the OCD portal on 3/15/2024.

Please let us know if you have any questions.

Thank you,



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24			STATE ENGL	NEER OFFI	CE		M	massah
			WELL	RECORD			Ŧ	るりても
		Š	ection 1. GENER.	AL INFORM	IATION			
A) Owner of	JC+F	rances Mill	s Family	Partner	ship	Owner's	Well No	
Street or 1	Post Office Ad	dress BOX 1:	558					
City and S	State Lov	ing, NM 882	256				····	
vell was drilled	under Permit	No. C-2939	}	and is	located in the:			
a. <u>NW</u>	_ ¼ _ <u>SW</u> ¼	<u>_SW_</u> ¼	¼ of Section	<u>19</u> Tow	nship <u>22S</u>	Range	32E	N.M.P.M.
b. Tract M	No	of Map No	(of the				
		of Block No 1 in				a		
Subdiv	ision, recorded	1 111 <u></u>		County.				
d. X=		_ feet, Y=	fe	et, N.M. Coo	rdinate System_			Zone in
the					, 			Grant.
B) Drilling C	ontractor T	<u>aylor Water</u>	Well Ser	vice	Licer	ise No. W	D-1348	
Address <u>73</u>	17 Etche	verry Rd.,	Carlsbad,	<u>NM 882</u>	20			
) Drilling Began _	2/9/03	Complete	a 2/13/03	Type	tools Rotar	v	Size of hole	7 7/8 in
Elevation of lan	nd surface or _	·	· ·	t well is	UK ft. To	otal depth of	well 280	ft.
Completed well	is X e	nallow 🗆 artesi	an	Denth	to water upon o	ompletion of	wall	6 1
Piecea Woll	JI			Doptin	to water upon co	Surpresson OI	woµ	<u> </u>
		Section	2. PRINCIPAL W	ATER-BEAI	RING STRATA			
Depth i		Thickness in Foot	Descriptio	n of Water-P	learing Formatic	m	Estimated	
From	To	in Feet				~11	(gallons per	minute)
		.	Dry	Hole				
			•·····	· · · · · · · · ·				

Section 3. RECORD OF CASING

Diameter	Pounds	Threads	Depth	in Feet	Length	Type of Shee	Perfora	tions
(inches)	per foot	per in.	Тор	Bottom	(feet)	Type of Shoe	From	То
		······				· · · · · · · · · · · · · · · · · · ·		
							,	
					`	······		

Section 4. RECORD OF MUDDING AND CEMENTING

	Depth i	Depth in Feet Hole Sacks Cubic Fee		Cubic Feet			
	From	То	Diameter	of Mud	of Cement	Method of Placement	
						~	
							S E
Rel	leased to Imag	ng: 3/11/2025	1:51:18 PM				음 문 다
		8. 0, 11, 2020			· ·		T

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Section 6. LOG OF HOLE

Page 20 of 116

Depth	in Feet	Thickness	Section 6. LOG OF HOLE
From	То	in Feet	Color and Type of Material Encountered
0	10	10	Sand+Clay:rd,loose
10	20	10	Shale:rd,sme gn,slty,smth
20	28	8	Siltstone:gn gry,wl consl,1my
28	31	3	Clay:rd,vry stky
31	40	9	Shale:rd,earthy,slty
40	72	32	Sandstone:clr,frstd,vfn-med grn,sb rnd,rnd,wl consl
72	84	12	Shale:rd,b1ky,p1ty,s1ty
84	90	6	Clay:rd,slty,smth
90	98	8	Sandstone:clr,frstd,vfn-fn grn,sme slty,wl consl
98	120	22	Shale:rd,slty
120	164	44	Sandstone:clr,frstd,vfn-fn grn,sb rnd,rnd,wl%consl
		:	30% Shale
164	172	8	Clay:rd,vry stky
172	280	108	Thin layer of Rd Clay, Rd Shale+Clr-Frstd Sandstone
		:	
·			
<u> </u>			
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Section 7. REMARKS AND ADDITIONAL INFORMATION

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Received by OCD: 12/2/2024 1:11:53 PM



SOIL BORE LOG SB-09

PROJECT NAME

DR. PI FEDERAL UNIT 17 8 DA #31H CLIENT OXY USA, Inc.

DRILLING DATE 11/15/2022 TOTAL DEPTH 110'

COORDINATES 32.38531930, -103.71040340 COORD SYS NAD 83 ULSTR 0-18-22S-32E SURFACE ELEVATION 3670'

Depth (ft) Moisture Material Description Elevation (ft) D Reddish Yellow Sandy Clay Loam. Dry 9865 3860 3865 3660 Red Sandy Clay Loam. Dry 9865 Red Sandy Clay Loam. Dry 3661 Red Sandy Clay Loam. Dry 3661 Red Sandy Clay. Dry 3685 Red Sandy Clay. Dry 3631 Red Sandy Clay. Dry 3635 Red Sandy Clay. Dry 3635 Red Sandy Clay. Dry 3635 3630 3631 Red Sandy Clay. Dry 3635 3631 3631 Red Sandy Clay. Dry 3635 3635 3630 3640 3641 3640 3642 3640 3645 3640 3645 3640 3645 3640 3645 3641 3645 3642 3645 3645 3645 3645 3645 3645 3645 3646 3645 3645 3645 3645 3645 3645 3645 3645 3645 3645 3645 3645 3645	vas observed to be dry aft		FEDERAL UNIT 18 7 IPP Well Pad. Bore LOGGED BY CHECKED B	
Yellowish Red Sandy Clay Loam. Dry 3665 Red Sandy Clay Loam. Dry 3655 Red Sandy Clay. Dry 3640 Red Sandy Clay. Dry 3630 Red Clay. Dry 3610 3690 3690 3690 <th>Depth (ft)</th> <th>Moisture</th> <th>Material Description</th> <th>Elevation (ft)</th>	Depth (ft)	Moisture	Material Description	Elevation (ft)
Red Sandy Clay Loam. Dry 3660 Red Sandy Clay. Dry 3645 Red Sandy Clay. Dry 3635 Red Sandy Clay. Dry 3630 Red Sandy Clay. Dry 3620 3610 3615 3600 3695 3690 3690 <t< td=""><td></td><td>D</td><td>Reddish Yellow Sandy Clay Loam. Dry</td><td></td></t<>		D	Reddish Yellow Sandy Clay Loam. Dry	
Red Sandy Clay Loam. Dry 3655 3645 3645 3640 3645 Red Sandy Clay. Dry 3630 Red Sandy Clay Loam. Dry 3630 Red Sandy Clay Loam. Dry 3630 Red Sandy Clay Loam. Dry 3625 3620 3615 3610 3610 3610 3690 3610 3690 3690 3690			Yellowish Red Sandy Clay Loam. Dry	3665
3650 3645 3640 3643 3640 3640 Red Sandy Clay. Dry 3630 Red Sandy Clay. Dry 3630 Red Sandy Clay. Dry 3625 3620 3615 3620 3615 3620 3615 3620 3616 3620 3615 3620 3615 3620 3615 3620 3615 3620 3616 3620 3621 3622 3623 3624 3625 3600 3595 3590 8515 3580 3576 3576 3577 3576 3576 3576 3576 3576				3660
Red Sandy Clay. Dry 3645 Red Sandy Clay. Dry 3635 Red Sandy Clay. Dry 3630 Red Sandy Clay. Dry 3625 3620 3615 RedSish Brown Sandy Clay. Dry 3610 3615 3610 3620 3615 RedSish Brown Sandy Clay. Dry 3610 3690 3595 3690 3595 3590 3590 Red Clay. Dry 3585 3585 3585 3585 3585 3585 3585 3590 3575 3590 3575 3590 3575 3590 3595 3585 3585 3585 3585 3585 3585 3590 3575 3590 3575 3591 3575 3592 3575 3595 3565			Red Sandy Clay Loam. Dry	3655
Red Sandy Clay. Dry 3640 Red Sandy Clay. Loam. Dry 3635 Red Sandy Clay. Dry 3630 Red Sandy Clay. Dry 3625 3620 3615 3610 3610 Reddish Brown Sandy Clay. Dry 3610 3610 3600 3595 3590 3590 3580 3580 3575 3570 3570 3565 3565				3650
Reddlish Brown Sandy Clay Loam. Dry 3635 Red Sandy Clay Loam. Dry 3630 Red Sandy Clay Loam. Dry 3625 3620 3615 3610 3616 3610 3600 3610 3601 Reddish Brown Sandy Clay. Dry 3610 3600 3695 3600 3595 3690 3595 3590 3590 Red Clay. Dry 3590 3590 3595 3590 3595 3590 3595 3590 3595 3590 3595 3590 3595 3590 3595 3590 3595 3590 3595 3590 3595 3590 3595 3590 3595 3590 3595 3590 3595 3590 3595 3590 3595 3590 3595 3590 3595 3590 3595 3590 35				3645
Red Sandy Clay. Dry 3630 Red Sandy Clay. Dry 3625 3620 3615 3615 3610 Reddish Brown Sandy Clay. Dry 3610 3600 3695 3601 3600 3692 3600 3693 3600 3694 3695 3695 3600 3595 3590 Red Clay. Dry 3590 3585 3560 3570 3570 3565 3560			Red Sandy Clay. Dry	3640
Red Sandy Clay. Dry 3630 Red Sandy Clay. Loam. Dry 3625 3620 3615 3615 3616 3630 3616 3630 3617 Reddish Brown Sandy Clay. Dry 3600 3690 3690 3690 3595 3690 3590 Red Clay. Dry 3580 3580 3580 <t< td=""><td></td><td></td><td>Reddish Brown Sandy Clay Loam. Dry</td><td></td></t<>			Reddish Brown Sandy Clay Loam. Dry	
3625 3620 3615 3610 3605 3600 3595 3595 3590 3595 Red Clay. Dry 3585 3580 3575 3570 3565				- 3630
Reddish Brown Sandy Clay. Dry 3615 Reddish Brown Sandy Clay. Dry 3605 3600 3595 3590 3590 Red Clay. Dry 3585 3580 3580 3575 3570 3565 3565			Red Sandy Clay Loam. Dry	
Reddish Brown Sandy Clay. Dry 3610 3600 3600 3595 3590 Red Clay. Dry 3585 3580 3580 3580 3570 3585 3580 3586 3580				3620
Reddish Brown Sandy Clay. Dry 3605 3600 3595 3590 3590 Red Clay. Dry 3585 3580 3580 3575 3570 3565 3565				3615
3600 3595 3590 3590 Red Clay. Dry 3585 3580 3580 3575 3570 3570 3565 3565 3565			Reddish Brown Sandy Clay. Dry	
Red Clay. Dry 3595 3585 3585 3580 3585 3595 3575 3570 3565				
Red Clay. Dry 3590 3585 3580 3575 3570 3570 3565				3600
Red Clay. Dry 3585 3580 3575 3570 3565 3565 3565				3595
3580 3575 3570 3565			Red Clay. Dry	3590
3575 3570 3565				3585
3570 3565				3580
3565				3575
2560				3570
Termination Depth at:110 ft.				3565
			Termination Depth at:110 ft.	

Disclaimer This bore log is intended to evidence a depth to groundwater greater than 110'. Released to Innaging \$510 2025 net 51 98 P. P. 23



APPENDIX C

Photographic Documentation

Receiged by OCD: 12/2/2024 1:11:53 PM

Project: DR PI Federal Unit 18 7 IPP #022H Entity: Oxy USA, Inc Incident ID: nAPP2407545309 ENSOLUM

Peck & Thore, Thu, May 16, 2024 et 11:57:46 M0T Positions 002:385976*N / 103.719981*W (e15.5n) Atikude: 3520R (e11.1n) Decum M985-84 Azhroch/Beetring: 222* 542W 3947 mills True (e11*) Exercision Angle: -0.2* Horizon Angle: -0.3* Zoern: U.SX

View of release extent prior to remediation activities, facing southwest (05/16/2024).



View of excavation extent during remediation activities, facing southwest (06/21/2024).

Received by OCD: 12/2/2024 1:11:53 PM

Project: DR PI Federal Unit 18 7 IPP #022H Entity: Oxy USA, Inc Incident ID: nAPP2407545309



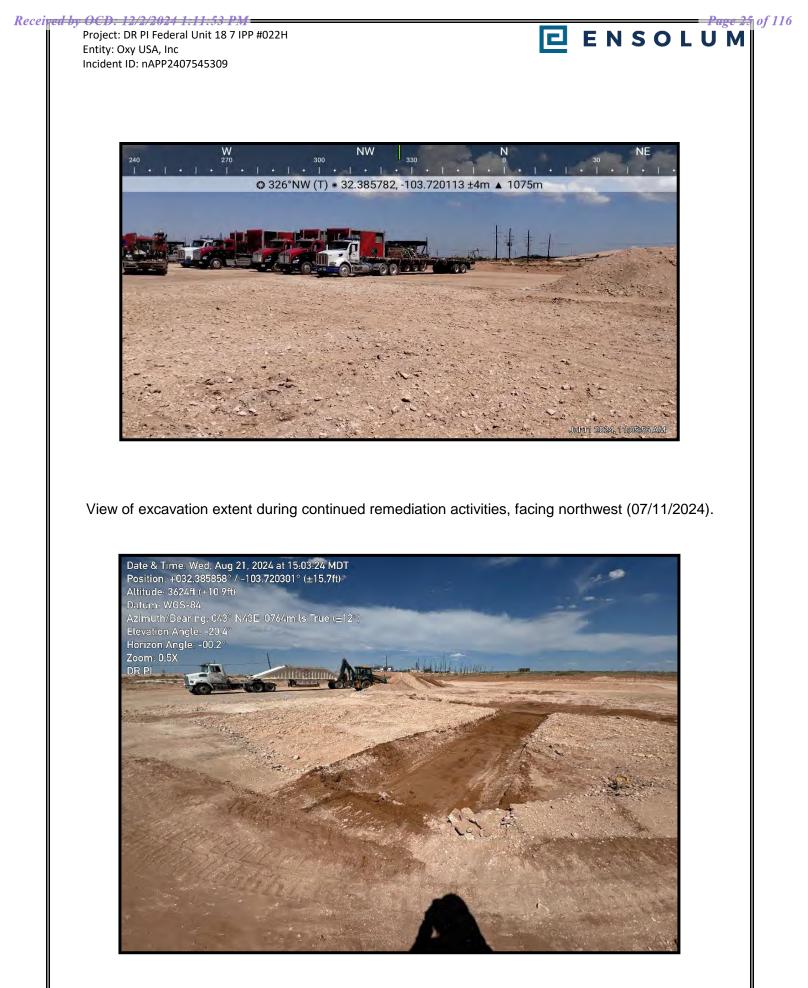
Page 24 of 116

ENSOLUM

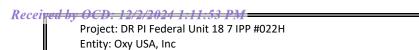
View of excavation extent during remediation activities, facing northeast (06/21/2024).



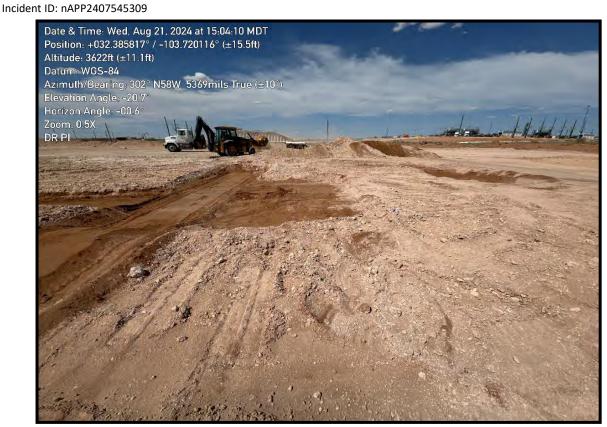
View of excavation extent during continued remediation activities, facing east (07/11/2024).



View of excavation extent during continued remediation activities, facing northeast (08/21/2024).







View of excavation extent during continued remediation activities, facing northwest (08/21/2024).



View of backfilled excavation extent post remediation activities, facing northeast (09/13/2024).



APPENDIX D

Table

					DR PI F	TABLE 1 IPLE ANALYTIC EDERAL UNIT 18 Oxy USA, Inc ea County, New I roject No. 03B14	CAL RESULTS 7 IPP #022H c. Mexico					
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toulene (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)
	il Conservation E Soils Impacted b (>100 feet)		10	NE	NE	NE	50	1,0	000	NE	2,500	20,000
				1	Composite F	oor Soil Sample	Analytical Resu	lts				
FS 01	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	2	21	<10.0	221	2,440
FS 02	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	11	1.0	<10.0	11.0	272
FS 03	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<1	0.0	<10.0	<10.0	160
FS 04	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	6	49	<10.0	649	752
F0.05	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	4,4	480	<10.0	4,480	3,360
FS 05	08/21/2024	1.0			NS			88	3.6	<10.0	88.6	NS
FS 06	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	9	56	<10.0	956	800
FS 07	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	1	62	<10.0	162	1,660
FS 08	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	3	19	<10.0	319	2,360
F0.00	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	1,4	400	<10.0	1,400	1,730
FS 09	08/21/2024	1.0		•••••••••••••••••••••••••••••••••••••••	NS	•••••••••••••••••••••••••••••••••••••••		<1	0.0	<10.0	<10.0	NS
50.40	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	6,493		<10.0	6,493	6,300
FS 10	08/21/2024	1.0			NS	•••••••••••••••••••••••••••••••••••••••		5	48	<10.0	548	NS
50.44	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	2,8	300	<10.0	2,800	7,520
FS 11	08/21/2024	1.0			NS			9	37	<10.0	937	NS
FS 12	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	39	9.0	<10.0	39.0	336
FS 13	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	1,4	140	<10.0	1,440	2,160
FS 13	08/21/2024	1.5			NS			<1	0.0	<10.0	<10.0	NS
FS 14	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	11	1.6	<10.0	11.6	704
FS 15	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	5	88	<10.0	588	2,240
FS 16	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	2,0	050	<10.0	2,050	3,840
F3 10	08/21/2024	1.0			NS			<1	0.0	<10.0	<10.0	NS
FS 17	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	78	3.5	<10.0	78.5	1,460
FS 18	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	7	83	<10.0	783	1,100
FS 19	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	2,0	613	<10.0	2,613	1,140
1018	08/21/2024	1.0			NS			<1	0.0	<10.0	<10.0	NS
FS 20	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	2,0	031	<10.0	2,031	3,680
1 5 20	08/21/2024	1.0			NS			<1	0.0	<10.0	<10.0	NS
FS 21	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	7	51	<10.0	751	1,340
FS 22	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	32	2.9	<10.0	32.9	912
FS 23	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	10	6.6	<10.0	16.6	816

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Page 28 of 116

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					DR PI F	TABLE 1 IPLE ANALYTIC EDERAL UNIT 18 Oxy USA, Inc ea County, New N roject No. 03B14	CAL RESULTS 7 IPP #022H c. Mexico					
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toulene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
	New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (>100 feet)			NE	NE	NE	50	1,000		NE	2,500	20,000
			•		Composite Fl	oor Soil Sample	Analytical Resu	lts		•		
FS 24	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	55	5.6	<10.0	55.6	2,520
FS 25	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	1,030		<10.0	1,030	1,260
F3 25	08/21/2024	1.0			NS	NS		<10.0		<10.0	<10.0	NS
FS 26	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	2,220		<10.0	2,220	1,960
1320	08/21/2024	1.0			NS			<1	0.0	<10.0	<10.0	NS
FS 27	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	1,	250	<10.0	1,250	2,000
1027	08/21/2024	1.0		NS					<10.0		<10.0	NS
FS 28	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	78	3.3	25.5	104	1,300
FS 29	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	26.9		<10.0	26.9	4,000
FS 30	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	7	70	<10.0	770	1,250
FS 31	07/11/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	6	1.1	<10.0	61.1	2,000

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

Additional Excavation and/or Re-Sample

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

NS: Not Sampled

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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E N S O L U M

	TABLE 2											
	SIDEWALL SOIL SAMPLE ANALYTICAL RESULTS											
	DR PI FEDERAL UNIT 18 7 IPP #022H Oxy USA, Inc.											
	Uxy USA, Inc. Lea County, New Mexico											
	Project No. 03B1417160											
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toulene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
		`	·		Composite Sid	lewall Soil Sampl	e Analytical Resu	ults				
SW01	08/21/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
SW02	08/21/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
SW03	08/21/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SW04	08/21/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SW05	08/21/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SW06	08/21/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SW07	08/21/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW08	08/21/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.4	<10.0	19.4	32.0
SW09	08/21/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW10	08/21/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.6	<10.0	12.6	16.0
SW11	08/21/2024	1.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0

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

E N S O L U M

	TABLE 3 BACKFILL SOIL SAMPLE ANALYTICAL RESULTS Lea Land Caliche Pit Oxy USA, Inc. Eddy County, New Mexico Ensolum Project No. NA											
Sample Designation												
	New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release 10 (≤ 50 feet)				NE	NE	50	NE	NE	NE	100	600
	Composite Background Soil Sample Analytical Result											
Lea Land Caliche Pit	09/13/2024	NA	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	98.6	<10.0	98.6	560

bgs: below ground surface

mg/kg: milligrams per kilogram

NA: Not Applicable

NE: Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation



July 19, 2024

KELLY LOWERY ENSOLUM, LLC 705 W WADLEY AVE.

MIDLAND, TX 79705

RE: DR PI FEDERAL UNIT 18 7 IPP #022H

Enclosed are the results of analyses for samples received by the laboratory on 07/11/24 13:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceg.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	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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



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

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: Project Number: Project Manager: Fax To:		Reported: 19-Jul-24 15:18
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 01 0.5	H244153-01	Soil	11-Jul-24 08:59	11-Jul-24 13:28
FS 02 0.5	H244153-02	Soil	11-Jul-24 09:01	11-Jul-24 13:28
FS 03 0.5	H244153-03	Soil	11-Jul-24 09:02	11-Jul-24 13:28
FS 04 0.5	H244153-04	Soil	11-Jul-24 09:03	11-Jul-24 13:28
FS 05 0.5	H244153-05	Soil	11-Jul-24 09:04	11-Jul-24 13:28
FS 06 0.5	H244153-06	Soil	11-Jul-24 09:06	11-Jul-24 13:28
FS 07 0.5	H244153-07	Soil	11-Jul-24 09:09	11-Jul-24 13:28
FS 08 0.5	H244153-08	Soil	11-Jul-24 09:11	11-Jul-24 13:28
FS 09 0.5	H244153-09	Soil	11-Jul-24 09:12	11-Jul-24 13:28
FS 10 0.5	H244153-10	Soil	11-Jul-24 09:13	11-Jul-24 13:28
FS 11 0.5	H244153-11	Soil	11-Jul-24 09:15	11-Jul-24 13:28
FS 12 0.5	H244153-12	Soil	11-Jul-24 09:16	11-Jul-24 13:28
FS 13 0.5	H244153-13	Soil	11-Jul-24 09:21	11-Jul-24 13:28
FS 14 0.5	H244153-14	Soil	11-Jul-24 09:22	11-Jul-24 13:28
FS 15 0.5	H244153-15	Soil	11-Jul-24 09:23	11-Jul-24 13:28
FS 16 0.5	H244153-16	Soil	11-Jul-24 09:25	11-Jul-24 13:28
FS 17 0.5	H244153-17	Soil	11-Jul-24 09:26	11-Jul-24 13:28
FS 18 0.5	H244153-18	Soil	11-Jul-24 09:27	11-Jul-24 13:28
FS 19 0.5	H244153-19	Soil	11-Jul-24 09:33	11-Jul-24 13:28
FS 20 0.5	H244153-20	Soil	11-Jul-24 09:34	11-Jul-24 13:28
FS 21 0.5	H244153-21	Soil	11-Jul-24 09:35	11-Jul-24 13:28
FS 22 0.5	H244153-22	Soil	11-Jul-24 09:36	11-Jul-24 13:28
FS 23 0.5	H244153-23	Soil	11-Jul-24 09:37	11-Jul-24 13:28
FS 24 0.5	H244153-24	Soil	11-Jul-24 09:38	11-Jul-24 13:28
FS 25 0.5	H244153-25	Soil	11-Jul-24 09:43	11-Jul-24 13:28
FS 26 0.5	H244153-26	Soil	11-Jul-24 09:44	11-Jul-24 13:28
FS 27 0.5	H244153-27	Soil	11-Jul-24 09:46	11-Jul-24 13:28

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project: Project Number: Project Manager: Fax To:		Reported: 19-Jul-24 15:18
FS 28 0.5	H244153-28	Soil	11-Jul-24 09:48	11-Jul-24 13:28
FS 29 0.5	H244153-29	Soil	11-Jul-24 09:49	11-Jul-24 13:28
FS 30 0.5	H244153-30	Soil	11-Jul-24 09:52	11-Jul-24 13:28
FS 31 0.5	H244153-31	Soil	11-Jul-24 09:50	11-Jul-24 13:28

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	, ber: 03B			7 IPP #02		Reported: 19-Jul-24 15:1	8
				01 0.5 153-01 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	2440		16.0	mg/kg	4	4071244	AC	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			108 %	71.5	-134	4071224	ЛН	13-Jul-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071203	MS	12-Jul-24	8015B	
DRO >C10-C28*	221		10.0	mg/kg	1	4071203	MS	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071203	MS	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			104 %	48.2	-134	4071203	MS	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			109 %	49.1	-148	4071203	MS	12-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B			7 IPP #02		Reported: 19-Jul-24 15:1	18
				02 0.5 153-02 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	272		16.0	mg/kg	4	4071244	AC	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071224	ЛН	13-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		102 %	71.5	-134	4071224	JH	13-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071203	MS	12-Jul-24	8015B	
DRO >C10-C28*	11.0		10.0	mg/kg	1	4071203	MS	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071203	MS	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			114 %	48.2	-134	4071203	MS	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			114 %	49.1	-148	4071203	MS	12-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B			7 IPP #02		Reported: 19-Jul-24 15:1	8
				5 03 0.5 153-03 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	4071244	AC	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071224	ЛН	13-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		107 %	71.5	-134	4071224	JH	13-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071203	MS	12-Jul-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4071203	MS	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071203	MS	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			110 %	48.2	-134	4071203	MS	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			110 %	49.1	-148	4071203	MS	12-Jul-24	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B			7 IPP #02		Reported: 19-Jul-24 15:1	18
				5 04 0.5 153-04 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	752		16.0	mg/kg	4	4071244	AC	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071224	ЛН	13-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071224	ЈН	13-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		104 %	71.5	-134	4071224	JH	13-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071203	MS	12-Jul-24	8015B	
DRO >C10-C28*	649		10.0	mg/kg	1	4071203	MS	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071203	MS	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			86.6 %	48.2	-134	4071203	MS	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			97.5 %	49.1	-148	4071203	MS	12-Jul-24	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	, iber: 03B			7 IPP #02		Reported: 19-Jul-24 15:1	18
				5 05 0.5 153-05 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds Chloride	3360		16.0	mg/kg	4	4071244	AC	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071224	JH	13-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071224	ЈН	13-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)))		107 %	71.5	-134	4071224	JH	13-Jul-24	8021B	
Petroleum Hydrocarbons by (GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071203	MS	13-Jul-24	8015B	
DRO >C10-C28*	4480		10.0	mg/kg	1	4071203	MS	13-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071203	MS	13-Jul-24	8015B	
Surrogate: 1-Chlorooctane			98.6 %	48.2	-134	4071203	MS	13-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			128 %	49.1	-148	4071203	MS	13-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B			7 IPP #02		Reported: 19-Jul-24 15:1	8
				06 0.5 153-06 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	800		16.0	mg/kg	4	4071244	AC	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	ЛН	13-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)		96.6 %	71.5	-134	4071230	JH	13-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071203	MS	13-Jul-24	8015B	
DRO >C10-C28*	956		10.0	mg/kg	1	4071203	MS	13-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071203	MS	13-Jul-24	8015B	
Surrogate: 1-Chlorooctane			111 %	48.2	-134	4071203	MS	13-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			124 %	49.1	-148	4071203	MS	13-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B			7 IPP #02		Reported: 19-Jul-24 15:1	8
				07 0.5 153-07 (So	oil)					
			Reporting)					
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	1660		16.0	mg/kg	4	4071244	AC	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	ЛН	13-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		108 %	71.5	-134	4071230	JH	13-Jul-24	8021B	
Petroleum Hydrocarbons by (GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
DRO >C10-C28*	162		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			90.5 %	48.2	-134	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			102 %	49.1	-148	4071204	ms	12-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B			7 IPP #02		Reported: 19-Jul-24 15:18	3
				08 0.5 153-08 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	2360		16.0	mg/kg	4	4071244	AC	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method 8	3021								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.7 %	71.5	-134	4071230	ЛН	13-Jul-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
DRO >C10-C28*	319		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			101 %	48.2	-134	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			109 %	49.1	-148	4071204	ms	12-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B			7 IPP #02		Reported: 19-Jul-24 15:18	
				5 09 0.5 153-09 (Se	,il)					
[11244	155-07 (50	,m)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	1730		16.0	mg/kg	4	4071244	AC	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	ЛН	13-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.4 %	71.5	-134	4071230	JH	13-Jul-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
DRO >C10-C28*	1400		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			94.9 %	48.2	-134	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			118 %	49.1	-148	4071204	ms	12-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B			7 IPP #02		Reported: 19-Jul-24 15:11	3
				10 0.5 153-10 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	6300		16.0	mg/kg	4	4071244	AC	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	ЈН	15-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	15-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	JH	15-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	JH	15-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	ЛН	15-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		130 %	71.5	-134	4071230	JH	15-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	53.4		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
DRO >C10-C28*	6440		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			112 %	48.2	-134	4071204	ms	12-Jul-24	8015B	_
Surrogate: 1-Chlorooctadecane			127 %	49.1	-148	4071204	ms	12-Jul-24	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B			7 IPP #02		Reported: 19-Jul-24 15:18	3
				5 11 0.5 153-11 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	7520		16.0	mg/kg	4	4071244	AC	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	JH	15-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	15-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	JH	15-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	JH	15-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	JH	15-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII))		112 %	71.5	-134	4071230	JH	15-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
DRO >C10-C28*	2800		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			96.8 %	48.2	-134	4071204	ms	12-Jul-24	8015B	_
Surrogate: 1-Chlorooctadecane			112 %	49.1	-148	4071204	ms	12-Jul-24	8015B	

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Page 47 of 116

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B			7 IPP #02		Reported: 19-Jul-24 15:1	18
				12 0.5 53-12 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	336		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	ЛН	13-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	ЛН	13-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		102 %	71.5	-134	4071230	JH	13-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
DRO >C10-C28*	39.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			90.2 %	48.2	-134	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			94.8 %	49.1	-148	4071204	ms	12-Jul-24	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B			7 IPP #02		Reported: 19-Jul-24 15:18	3
				5 13 0.5 153-13 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	2160		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	JH	13-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			102 %	71.5	-134	4071230	ЈН	13-Jul-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
DRO >C10-C28*	1440		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			94.6 %	48.2	-134	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			103 %	49.1	-148	4071204	ms	12-Jul-24	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B			7 IPP #02		Reported: 19-Jul-24 15:1	8
			- ~	5 14 0.5 153-14 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	704		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 80)21								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		107 %	71.5	-134	4071230	JH	14-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
DRO >C10-C28*	11.6		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			84.9 %	48.2	-134	4071204	ms	12-Jul-24	8015B	_
Surrogate: 1-Chlorooctadecane			88.0 %	49.1	-148	4071204	ms	12-Jul-24	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:DR PI FEDERAL UNIT 18 7 IPP #02Reported:Project Number:03B141716019-Jul-24 15:18Project Manager:KELLY LOWERYFax To:Fax To:									8
				15 0.5 53-15 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	2240		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 80	21								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	ЛН	14-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII))		99.8 %	71.5	-134	4071230	JH	14-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
DRO >C10-C28*	588		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			91.5 %	48.2	-134	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			104 %	49.1	-148	4071204	ms	12-Jul-24	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:DR PI FEDERAL UNIT 18 7 IPP #02Reported:Project Number:03B141716019-Jul-24 15:18Project Manager:KELLY LOWERYFax To:Fax To:									8
				5 16 0.5 153-16 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	3840		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 80)21								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	ЛН	14-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII))		103 %	71.5	-134	4071230	JH	14-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
DRO >C10-C28*	2050		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			97.0 %	48.2	-134	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			108 %	49.1	-148	4071204	ms	12-Jul-24	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	, iber: 03B			7 IPP #02		Reported: 19-Jul-24 15:1	18
				5 17 0.5	•••					
			H244	153-17 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	1460		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 80	21								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	ЛН	14-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	ЛН	14-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		103 %	71.5	-134	4071230	JH	14-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
DRO >C10-C28*	78.5		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			96.4 %	48.2	-134	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			102 %	49.1	-148	4071204	ms	12-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:DR PI FEDERAL UNIT 18 7 IPP #02Reported:Project Number:03B141716019-Jul-24 15:18Project Manager:KELLY LOWERYFax To:Fax To:									8
				5 18 0.5 153-18 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	1100		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	ЛН	14-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	ЛН	14-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		105 %	71.5	-134	4071230	JH	14-Jul-24	8021B	
<u>Petroleum Hydrocarbons by (</u>	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
DRO >C10-C28*	783		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			99.5 %	48.2	-134	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			116 %	49.1	-148	4071204	ms	12-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:DR PI FEDERAL UNIT 18 7 IPP #02Reported:Project Number:03B141716019-Jul-24 15:18Project Manager:KELLY LOWERYFax To:Fax To:									8
				19 0.5 153-19 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	1140		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds I	oy EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	ЛН	14-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	ЈН	14-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		108 %	71.5	-134	4071230	JH	14-Jul-24	8021B	
Petroleum Hydrocarbons by G	GC FID									
GRO C6-C10*	13.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
DRO >C10-C28*	2600		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			104 %	48.2	-134	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			112 %	49.1	-148	4071204	ms	12-Jul-24	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B			7 IPP #02		Reported: 19-Jul-24 15:18	3
				20 0.5 153-20 (So	oil)					
)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	3680		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	ЛН	14-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		98.2 %	71.5	-134	4071230	ЛН	14-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	20.5		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
DRO >C10-C28*	2010		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			101 %	48.2	-134	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			109 %	49.1	-148	4071204	ms	12-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B			7 IPP #02		Reported: 19-Jul-24 15:1	8
				21 0.5 153-21 (So	oil)					
)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	1340		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	ЈН	14-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		104 %	71.5	-134	4071230	JH	14-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
DRO >C10-C28*	751		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			94.2 %	48.2	-134	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			109 %	49.1	-148	4071204	ms	12-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B			7 IPP #02		Reported: 19-Jul-24 15:18	
				22 0.5 153-22 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	912		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	ЛН	14-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	71.5	-134	4071230	JH	14-Jul-24	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
DRO >C10-C28*	32.9		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			<i>98.9 %</i>	48.2	-134	4071204	ms	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			104 %	49.1	-148	4071204	ms	12-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:DR PI FEDERAL UNIT 18 7 IPP #02Reported:Project Number:03B141716019-Jul-24 15:18Project Manager:KELLY LOWERYFax To:Fax To:									8
				23 0.5	sil)					
			11211	130 20 (50	,m)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	816		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	ЛН	14-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII))		106 %	71.5	-134	4071230	JH	14-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071204	ms	13-Jul-24	8015B	
DRO >C10-C28*	16.6		10.0	mg/kg	1	4071204	ms	13-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	13-Jul-24	8015B	
Surrogate: 1-Chlorooctane			96.0 %	48.2	-134	4071204	ms	13-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			99.8 %	49.1	-148	4071204	ms	13-Jul-24	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:DR PI FEDERAL UNIT 18 7 IPP #02Reported:Project Number:03B141716019-Jul-24 15:18Project Manager:KELLY LOWERYFax To:Fax To:									8
				24 0.5 153-24 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	2520		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII))		109 %	71.5	-134	4071230	JH	14-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071204	ms	13-Jul-24	8015B	
DRO >C10-C28*	55.6		10.0	mg/kg	1	4071204	ms	13-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	13-Jul-24	8015B	
Surrogate: 1-Chlorooctane			79.3 %	48.2	-134	4071204	ms	13-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			82.6 %	49.1	-148	4071204	ms	13-Jul-24	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B			7 IPP #02		Reported: 19-Jul-24 15:1	18
				25 0.5 153-25 (Se	vil)					
			11211	130 23 (50	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	1260		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 802	21								
Benzene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071230	ЛН	14-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071230	JH	14-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		102 %	71.5	-134	4071230	JH	14-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071204	ms	13-Jul-24	8015B	
DRO >C10-C28*	1030		10.0	mg/kg	1	4071204	ms	13-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	13-Jul-24	8015B	
Surrogate: 1-Chlorooctane			80.8 %	48.2	-134	4071204	ms	13-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			99.2 %	49.1	-148	4071204	ms	13-Jul-24	8015B	

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Page 61 of 116

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:DR PI FEDERAL UNIT 18 7 IPP #02Reported:Project Number:03B141716019-Jul-24 15:18Project Manager:KELLY LOWERYFax To:Fax To:									8
				26 0.5 153-26 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	1960		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 80	021								
Benzene*	< 0.050		0.050	mg/kg	50	4071231	ЛН	15-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071231	ЛН	15-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		102 %	71.5	-134	4071231	JH	15-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071204	ms	13-Jul-24	8015B	
DRO >C10-C28*	2220		10.0	mg/kg	1	4071204	ms	13-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071204	ms	13-Jul-24	8015B	
Surrogate: 1-Chlorooctane			87.7 %	48.2	-134	4071204	ms	13-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			99.6 %	49.1	-148	4071204	ms	13-Jul-24	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project:DR PI FEDERAL UNIT 18 7 IPP #02Reported:Project Number:03B141716019-Jul-24 15:18Project Manager:KELLY LOWERYFax To:Fax To:								18
				27 0.5 153-27 (Se	. :I)					
			П244	155-27 (50)11)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	2000		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compound	ls by EPA Method 80	21								
Benzene*	< 0.050		0.050	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071231	ЛН	15-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (P	PID)		104 %	71.5	-134	4071231	JH	15-Jul-24	8021B	
Petroleum Hydrocarbons by	y GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071205	MS	12-Jul-24	8015B	
DRO >C10-C28*	1250		10.0	mg/kg	1	4071205	MS	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071205	MS	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			99.3 %	48.2	-134	4071205	MS	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			123 %	49.1	-148	4071205	MS	12-Jul-24	8015B	

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Page 63 of 116

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project:DR PI FEDERAL UNIT 18 7 IPP #02Reported:Project Number:03B141716019-Jul-24 15:18Project Manager:KELLY LOWERYFax To:Fax To:								18
				28 0.5 153-28 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	1300		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4071231	ЛН	15-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071231	ЛН	15-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		104 %	71.5	-134	4071231	JH	15-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071205	MS	12-Jul-24	8015B	
DRO >C10-C28*	78.3		10.0	mg/kg	1	4071205	MS	12-Jul-24	8015B	
EXT DRO >C28-C36	25.5		10.0	mg/kg	1	4071205	MS	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			99.8 %	48.2	-134	4071205	MS	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			110 %	49.1	-148	4071205	MS	12-Jul-24	8015B	

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Page 64 of 116

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:DR PI FEDERAL UNIT 18 7 IPP #02Reported:Project Number:03B141716019-Jul-24 15:18Project Manager:KELLY LOWERYFax To:Fax To:									8
				29 0.5 153-29 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	4000		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071231	ЛН	15-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PII))		104 %	71.5	-134	4071231	JH	15-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071205	MS	12-Jul-24	8015B	
DRO >C10-C28*	26.9		10.0	mg/kg	1	4071205	MS	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071205	MS	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			103 %	48.2	-134	4071205	MS	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			115 %	49.1	-148	4071205	MS	12-Jul-24	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project:DR PI FEDERAL UNIT 18 7 IPP #02Reported:Project Number:03B141716019-Jul-24 15:18Project Manager:KELLY LOWERYFax To:Fax To:								
				30 0.5 53-30 (So	oil)					
					,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	1250		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 802	21								
Benzene*	< 0.050		0.050	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071231	ЛН	15-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		104 %	71.5	-134	4071231	JH	15-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071205	MS	12-Jul-24	8015B	
DRO >C10-C28*	770		10.0	mg/kg	1	4071205	MS	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071205	MS	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			98.3 %	48.2	-134	4071205	MS	12-Jul-24	8015B	_
Surrogate: 1-Chlorooctadecane			118 %	49.1	-148	4071205	MS	12-Jul-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project:DR PI FEDERAL UNIT 18 7 IPP #02Reported:Project Number:03B141716019-Jul-24 15:18Project Manager:KELLY LOWERYFax To:Fax To:								
				31 0.5 53-31 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	2000		16.0	mg/kg	4	4071511	CT	15-Jul-24	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4071231	ЛН	15-Jul-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4071231	JH	15-Jul-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4071231	ЛН	15-Jul-24	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		104 %	71.5	-134	4071231	ЛН	15-Jul-24	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	4071205	MS	12-Jul-24	8015B	
DRO >C10-C28*	61.1		10.0	mg/kg	1	4071205	MS	12-Jul-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4071205	MS	12-Jul-24	8015B	
Surrogate: 1-Chlorooctane			96.5 %	48.2	-134	4071205	MS	12-Jul-24	8015B	
Surrogate: 1-Chlorooctadecane			109 %	49.1	-148	4071205	MS	12-Jul-24	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: Project Number: Project Manager: Fax To:		Reported: 19-Jul-24 15:18	
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Inorganic Compounds - Quality Control

Cardinal Laboratories

	Reporting		Spike	Source		%REC		RPD	
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
			Prepared &	Analyzed:	12-Jul-24				
ND	16.0	mg/kg							
			Prepared &	Analyzed:	12-Jul-24				
432	16.0	mg/kg	400		108	80-120			
			Prepared &	Analyzed:	12-Jul-24				
448	16.0	mg/kg	400		112	80-120	3.64	20	
			Prepared &	Analyzed:	15-Jul-24				
ND	16.0	mg/kg							
			Prepared &	Analyzed:	15-Jul-24				
448	16.0	mg/kg	400		112	80-120			
			Prepared &	Analyzed:	15-Jul-24				
432	16.0	mg/kg	400		108	80-120	3.64	20	
	ND 432 448 ND 448	Result Limit ND 16.0 432 16.0 448 16.0 ND 16.0 448 16.0 448 16.0	Result Limit Units ND 16.0 mg/kg 432 16.0 mg/kg 448 16.0 mg/kg ND 16.0 mg/kg	Result Limit Units Level Prepared & ND 16.0 mg/kg 432 16.0 mg/kg 400 432 16.0 mg/kg 400 Prepared & 448 16.0 mg/kg ND 16.0 mg/kg 400 Prepared & Prepared & 448 16.0 mg/kg 448 16.0 mg/kg Prepared & Prepared &	Result Limit Units Level Result Prepared & Analyzed: Prepared & Analyzed: ND 16.0 mg/kg 432 16.0 mg/kg 432 16.0 mg/kg 448 16.0 mg/kg Prepared & Analyzed: Prepared & Analyzed: 9 Prepared & Analyzed: 9 Prepared & Analyzed: 16.0 mg/kg 448 16.0 9 Prepared & Analyzed: 16.0 mg/kg	Result Limit Units Level Result %REC Prepared & Analyzed: 12-Jul-24 Prepared & Analyzed: 12-Jul-24 ND 16.0 mg/kg Prepared & Analyzed: 12-Jul-24 432 16.0 mg/kg 400 108 Prepared & Analyzed: 12-Jul-24 112 448 16.0 mg/kg 400 112 ND 16.0 mg/kg 400 112 448 16.0 mg/kg 400 112 448 16.0 mg/kg 400 112 Prepared & Analyzed: 15-Jul-24 15-Jul-24 448 16.0 mg/kg 400 112	Result Limit Units Level Result %REC Limits Prepared & Analyzed: 12-Jul-24 Prepared & Analyzed: 12-Jul-24 Prepared & Analyzed: 12-Jul-24 Prepared & Analyzed: 12-Jul-24 MD 16.0 mg/kg 400 108 80-120 432 16.0 mg/kg 400 112 80-120 Prepared & Analyzed: 12-Jul-24 Prepared & Analyzed: 12-Jul-24 80-120 Prepared & Analyzed: 12-Jul-24 448 16.0 mg/kg 400 112 80-120 Prepared & Analyzed: 15-Jul-24 Prepared & Analyzed: 15-Jul-24 Prepared & Analyzed: 15-Jul-24 90 MD 16.0 mg/kg 400 112 80-120 Prepared & Analyzed: 15-Jul-24 Prepared & Analyzed: 15-Jul-24 90 112 80-120	Result Limit Units Level Result %REC Limits RPD Prepared & Analyzed: 12-Jul-24 ND 16.0 mg/kg	Result Limit Units Level Result %REC Limits RPD Limit Prepared & Analyzed: 12-Jul-24 ND 16.0 mg/kg Prepared & Analyzed: 12-Jul-24 Image: Colspan="4">Image: Colspan="4">Image: Colspan="4">Image: Colspan="4">Image: Colspan="4">RPD Limit MD 16.0 mg/kg 400 108 80-120 Image: Colspan="4">Image: Colspan="4" Image: Colspan

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLCProject:DR PI FEDERAL UNIT 18 7 IPP #02705 W WADLEY AVE.Project Number:03B1417160MIDLAND TX, 79705Project Manager:KELLY LOWERYFax To:	Reported: 19-Jul-24 15:18	
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4071224 - Volatiles										
Blank (4071224-BLK1)				Prepared: 1	2-Jul-24 Aı	nalyzed: 13	-Jul-24			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0541		mg/kg	0.0500		108	71.5-134			
LCS (4071224-BS1)				Prepared: 1	2-Jul-24 A1	nalyzed: 13	-Jul-24			
Benzene	2.17	0.050	mg/kg	2.00		108	82.8-130			
Toluene	2.00	0.050	mg/kg	2.00		100	86-128			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	85.9-128			
m,p-Xylene	4.01	0.100	mg/kg	4.00		100	89-129			
o-Xylene	2.01	0.050	mg/kg	2.00		101	86.1-125			
Total Xylenes	6.03	0.150	mg/kg	6.00		100	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0476		mg/kg	0.0500		95.3	71.5-134			
LCS Dup (4071224-BSD1)				Prepared: 1	2-Jul-24 A1	nalyzed: 13	-Jul-24			
Benzene	2.00	0.050	mg/kg	2.00		100	82.8-130	7.88	15.8	
Toluene	1.87	0.050	mg/kg	2.00		93.7	86-128	6.71	15.9	
Ethylbenzene	1.90	0.050	mg/kg	2.00		95.2	85.9-128	7.09	16	
m,p-Xylene	3.72	0.100	mg/kg	4.00		93.0	89-129	7.60	16.2	
o-Xylene	1.87	0.050	mg/kg	2.00		93.7	86.1-125	7.12	16.7	
Total Xylenes	5.59	0.150	mg/kg	6.00		93.2	88.2-128	7.44	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0492		mg/kg	0.0500		98.3	71.5-134			

Batch 4071230 - Volatiles

Blank (4071230-BLK1)			Prepared: 12-Jul-24 Analyzed: 13-Jul-24
Benzene	ND	0.050	mg/kg
Toluene	ND	0.050	mg/kg
Ethylbenzene	ND	0.050	mg/kg
Total Xylenes	ND	0.150	mg/kg

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: DR PI FEDERAL UNIT 18 7 IPP #02 Project Number: 03B1417160 Project Manager: KELLY LOWERY Fax To:						Reported: 19-Jul-24 15:18			
	Volatile Organic (•	·	Method 8 oratories	8021 - Qu	ality Co	ntrol			
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4071230 - Volatiles										
Blank (4071230-BLK1)				Prepared: 1	2-Jul-24 Ar	nalyzed: 13	3-Jul-24			
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0538		mg/kg	0.0500		108	71.5-134			
LCS (4071230-BS1)				Prepared: 1	2-Jul-24 Aı	nalyzed: 13	3-Jul-24			
Benzene	2.27	0.050	mg/kg	2.00		113	82.8-130			
Toluene	2.06	0.050	mg/kg	2.00		103	86-128			
Ethylbenzene	2.05	0.050	mg/kg	2.00		103	85.9-128			
m,p-Xylene	4.00	0.100	mg/kg	4.00		99.9	89-129			
o-Xylene	2.03	0.050	mg/kg	2.00		101	86.1-125			
Total Xylenes	6.02	0.150	mg/kg	6.00		100	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0475		mg/kg	0.0500		94.9	71.5-134			
LCS Dup (4071230-BSD1)				Prepared: 1	2-Jul-24 Ar	nalyzed: 13	3-Jul-24			
Benzene	2.11	0.050	mg/kg	2.00		105	82.8-130	7.34	15.8	
Toluene	1.93	0.050	mg/kg	2.00		96.5	86-128	6.39	15.9	
Ethylbenzene	1.95	0.050	mg/kg	2.00		97.6	85.9-128	5.03	16	
m,p-Xylene	3.84	0.100	mg/kg	4.00		96.1	89-129	3.93	16.2	
o-Xylene	1.94	0.050	mg/kg	2.00		96.9	86.1-125	4.41	16.7	
Total Xylenes	5.78	0.150	mg/kg	6.00		96.3	88.2-128	4.09	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0492		mg/kg	0.0500		98.5	71.5-134			
Batch 4071231 - Volatiles										
Blank (4071231-BLK1)				Prepared: 1	2-Jul-24 Aı	nalyzed: 1;	5-Jul-24			
Benzene	ND	0.050	mg/kg							

Dialik (40/1231-DLK1)				Trepared. 12-Jul-	-24 Analyzeu.	1 <i>3-</i> 5ul-2 4		
Benzene	ND	0.050	mg/kg					
Toluene	ND	0.050	mg/kg					
Ethylbenzene	ND	0.050	mg/kg					
Total Xylenes	ND	0.150	mg/kg					
Total BTEX	ND	0.300	mg/kg					
Surrogate: 4-Bromofluorobenzene (PID)	0.0512		mg/kg	0.0500	102	71.5-134		_

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: Project Number: Project Manager: Fax To:		Reported: 19-Jul-24 15:18
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal	Laboratories

		Denerti		C. J.	C		0/DEC		DDD	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4071231 - Volatiles										
LCS (4071231-BS1)				Prepared: 1	2-Jul-24 A	nalyzed: 15	5-Jul-24			
Benzene	1.92	0.050	mg/kg	2.00		95.9	82.8-130			
Toluene	1.95	0.050	mg/kg	2.00		97.6	86-128			
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	85.9-128			
m,p-Xylene	4.01	0.100	mg/kg	4.00		100	89-129			
o-Xylene	1.99	0.050	mg/kg	2.00		99.7	86.1-125			
Total Xylenes	6.00	0.150	mg/kg	6.00		100	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0524		mg/kg	0.0500		105	71.5-134			
LCS Dup (4071231-BSD1)				Prepared: 1	2-Jul-24 An	nalyzed: 15	5-Jul-24			
Benzene	1.84	0.050	mg/kg	2.00		91.9	82.8-130	4.22	15.8	
Toluene	1.87	0.050	mg/kg	2.00		93.3	86-128	4.46	15.9	
Ethylbenzene	1.93	0.050	mg/kg	2.00		96.4	85.9-128	4.70	16	
m,p-Xylene	3.81	0.100	mg/kg	4.00		95.2	89-129	5.17	16.2	
o-Xylene	1.90	0.050	mg/kg	2.00		94.9	86.1-125	4.90	16.7	
Total Xylenes	5.71	0.150	mg/kg	6.00		95.1	88.2-128	5.08	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0516		mg/kg	0.0500		103	71.5-134			

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLCProject:DR PI FEDERAL UNIT 18 7 IPP #02Reported:705 W WADLEY AVE.Project Number:03B141716019-Jul-24 1MIDLAND TX, 79705Project Manager:KELLY LOWERYFax To:	
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal	Laboratories
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4071203 - General Prep - Organics										
Blank (4071203-BLK1)				Prepared &	z Analyzed:	12-Jul-24				
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	45.3		mg/kg	50.0		90.6	48.2-134			
Surrogate: 1-Chlorooctadecane	45.6		mg/kg	50.0		91.2	49.1-148			
LCS (4071203-BS1)				Prepared &	analyzed:	12-Jul-24				
GRO C6-C10	206	10.0	mg/kg	200		103	66.4-123			
DRO >C10-C28	218	10.0	mg/kg	200		109	66.5-118			
Total TPH C6-C28	424	10.0	mg/kg	400		106	77.6-123			
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0		97.5	48.2-134			
Surrogate: 1-Chlorooctadecane	47.5		mg/kg	50.0		95.1	49.1-148			
LCS Dup (4071203-BSD1)				Prepared &	k Analyzed:	12-Jul-24				
GRO C6-C10	200	10.0	mg/kg	200		100	66.4-123	2.77	17.7	
DRO >C10-C28	207	10.0	mg/kg	200		103	66.5-118	5.48	21	
Total TPH C6-C28	407	10.0	mg/kg	400		102	77.6-123	4.15	18.5	
Surrogate: 1-Chlorooctane	47.4		mg/kg	50.0		94.8	48.2-134			
Surrogate: 1-Chlorooctadecane	47.2		mg/kg	50.0		94.4	49.1 - 148			
Batch 4071204 - General Prep - Organics										
Rlank (4071204-RI K1)				Durana de	- Analyzed:	12 1-1 24				

Blank (4071204-BLK1)	Prepared & Analyzed: 12-Jul-24							
GRO C6-C10	ND	10.0	mg/kg					
DRO >C10-C28	ND	10.0	mg/kg					
EXT DRO >C28-C36	ND	10.0	mg/kg					
Surrogate: 1-Chlorooctane	40.9		mg/kg	50.0	81.8	48.2-134		
Surrogate: 1-Chlorooctadecane	41.8		mg/kg	50.0	83.6	49.1-148		

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: DR PI FEDERAL UNIT 18 Project Number: 03B1417160 Project Manager: KELLY LOWERY Fax To:	8 7 IPP #02 Reported: 19-Jul-24 15:18
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal	Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4071204 - General Prep - Organics										
LCS (4071204-BS1)				Prepared &	Analyzed:	12-Jul-24				
GRO C6-C10	208	10.0	mg/kg	200		104	66.4-123			
DRO >C10-C28	200	10.0	mg/kg	200		100	66.5-118			
Total TPH C6-C28	408	10.0	mg/kg	400		102	77.6-123			
Surrogate: 1-Chlorooctane	44.4		mg/kg	50.0		88.7	48.2-134			
Surrogate: 1-Chlorooctadecane	44.6		mg/kg	50.0		89.1	49.1-148			
LCS Dup (4071204-BSD1)				Prepared &	Analyzed:	12-Jul-24				
GRO C6-C10	201	10.0	mg/kg	200		100	66.4-123	3.30	17.7	
DRO >C10-C28	189	10.0	mg/kg	200		94.7	66.5-118	5.61	21	
Total TPH C6-C28	390	10.0	mg/kg	400		97.6	77.6-123	4.43	18.5	
Surrogate: 1-Chlorooctane	42.8		mg/kg	50.0		85.5	48.2-134			
Surrogate: 1-Chlorooctadecane	43.6		mg/kg	50.0		87.1	49.1-148			
Batch 4071205 - General Prep - Organics										
Blank (4071205-BLK1)				Prepared &	Analyzed:	12-Jul-24				
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
							48.2-134			
Surrogate: 1-Chlorooctane	47.8		mg/kg	50.0		95.5	48.2-134			
0	47.8 52.5		mg/kg mg/kg	50.0 50.0		95.5 105	48.2-134 49.1-148			
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane LCS (4071205-BS1)					Analyzed:	105				
Surrogate: 1-Chlorooctadecane		10.0		50.0	Analyzed:	105				
Surrogate: 1-Chlorooctadecane LCS (4071205-BS1)	52.5	10.0 10.0	mg/kg	50.0 Prepared &	Analyzed:	105 12-Jul-24	49.1-148			
Surrogate: 1-Chlorooctadecane LCS (4071205-BS1) GRO C6-C10	<i>52.5</i> 216		mg/kg	50.0 Prepared & 200	Analyzed:	105 12-Jul-24 108	<i>49.1-148</i> 66.4-123			
Surrogate: 1-Chlorooctadecane LCS (4071205-BS1) GRO C6-C10 DRO >C10-C28	52.5 216 221	10.0	mg/kg mg/kg mg/kg	50.0 Prepared & 200 200	Analyzed:	105 12-Jul-24 108 111	49.1-148 66.4-123 66.5-118			

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: DR PI FEDERAL UNIT 18 7 IPP #02 Project Number: 03B1417160 Project Manager: KELLY LOWERY Fax To:	Reported: 19-Jul-24 15:18
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4071205 - General Prep - Organics										
LCS Dup (4071205-BSD1)				Prepared &	Analyzed:	12-Jul-24				
GRO C6-C10	209	10.0	mg/kg	200		104	66.4-123	3.39	17.7	
DRO >C10-C28	209	10.0	mg/kg	200		104	66.5-118	5.79	21	
Total TPH C6-C28	418	10.0	mg/kg	400		104	77.6-123	4.60	18.5	
Surrogate: 1-Chlorooctane	49.5		mg/kg	50.0		99.0	48.2-134			
Surrogate: 1-Chlorooctadecane	53.8		mg/kg	50.0		108	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Project Manager: Kelly Lowery Address: 601 N Marienfeld Street, Suite 400 City: Midland State Phone #: 214-733-3165 Fax Project #: 03B1417160 Proj Project Name: DR PI Federal Unit 18 7 IPP	Jnit et,	Suite 400 State: TX Zi Fax #: Project Owner: 18 7 IPP #022H	Zip: 79701 //:	BILL TO P.O. #: Oxy, USA, Inc Attn: Wade Dittrich Address: City: State: Zip:
Project Location: Sampler Name:	Lea County, NM NKD/SK			Phone # Fax #:
Sampler Name:	NKD/SK			1
		Depth	IERS /ATER	m
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)O # CONTAINERS GROUNDWATE WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :
>	105	0.5	X 1.7	1-1-74
cue	FS02 F502	2		
ע	25/0/2	_		
ıer	1006			
8-	808			
5-20	F309	05	× 1	× 7-11-24
PLEASE NOTE: Labiny and Damages, Cardinat's liability a analyses, All claims including those for negligence and any service. In no event shall Cardinal be liable for incidential or	bility and Damages. Cardinal's liability and cl including those for negligence and any other shall Cardinal be liable for incidential or cons	cause wh cquental d	any claim arising whether based in co a deemed waived unless made in write ng without limitation, business interrup	d in contract or tort, shall be limited to the amount paid by the client for the an writing and received by Cartinal within 30 days after completion of the a emploins, loss of use, or lose of profits incurred by client, its subadatives, such a torus is housing on or to the above studies associate or otherwise.
Relinquished By: K. Shi Mado Relinquished By:	nerden	Date: 7-11-24 Time: Date: Time:	Received By: Received By:	iquery
Delivered By: (Circle One) Sampler - UPS - Bus - Ot	her	Corrected Temp. "C	Cool Intact Pres Pres	No CHECKED BY:

D

ABORATORIES 101 East Marland, Hobbs, NM 88240

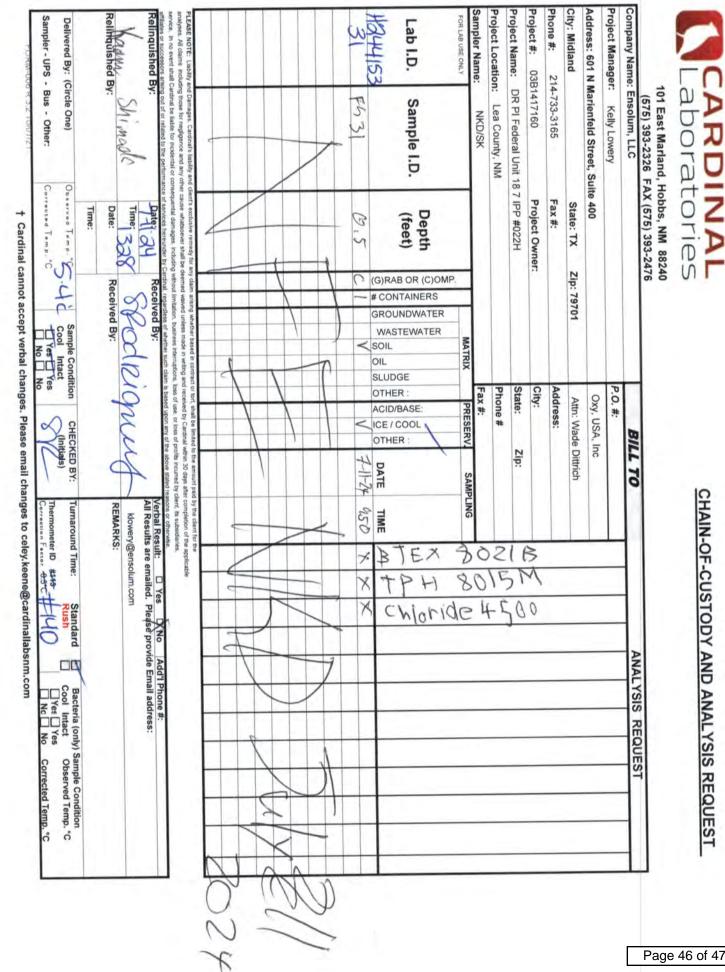
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

K. Shi Mad	S		Relinquished By:	1 1 2 5	5	10 15 10	81 SI X	11 1517	9154 01	5154 515	14 5.14	5 FJ 5	12 FS12	11 12	Lab I.D. Sample I.D.	FOR LAB USE ONLY	Sampler Name: NKD/SK	Project Location: Lea County, NM	Project Name: DR PI Federal L	Project #: 03B1417160	Phone #: 214-733-3165	City: Midland	Address: 601 N Marienfeld Street, Suite 400	Project Manager: Kelly Lowery	Company Name: Ensolum, LLC	101 East Mariano (575) 393-2326
Observed Temp. "C	Date: Time:	Time: A	Date: 1- Ju	billity and clients exclusive remedy tor any claim d any other cause whatsoever shall be deemed tail or consequental damages, including without tail or consequental damages.	0.5	-							7	0	.D. Depth (feet)			MN	DR PI Federal Unit 18 7 IPP #022H	Project Owner:	Fax #:	State: TX	et, Suite 400	Y		(575) 393-2326 FAX (575) 393-2476
Sample Condition	Received By:		Received By:	ny claim ansing whether based in conuses deemed waived unless made in writing and 3 without limitation, business interruptions, I 3 without isocardises of whether such claim	1 V	11 V							10 1	C1 V	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	MATRIX				.1		Zip: 79701				:40 :76
(hitials)	. 0	jonny		is contact, or loss, or loss, or loss of profiles within 30 days and emptions, loss of use, or loss of profile incurred by encholasm is based upon any of the above stated to	1-11-1	L L							2	V 7-11-24	OTHER : ACID/BASE: ICE / COOL OTHER :	PRESERV. SAM	Fax #:	Phone #	State: Zip:	City:	Address:	Attn: Wade Dittrich	Oxy, USA, Inc	P.O. #:	BILL TO	
Turnaround Time: Thermometer ID 4#1	REMARKS:	klowery@ensolum	Verbal Result:	er completion of the applicabl client, its subsidiaries, easons or otherwise.	7 754 V	0.5/ "	1200	0126	925	823	922	921	016 1		BTEX				IB							
Standard		um.com	Verbal Result:	đ	2 (VV							1 1	2	allaido	80		50	N S	, 					A	
Bacteria (only) Sample Condition Cool Intact Observed Temp. °C			Add'I Phone #: ide Email address:																						ANALYSIS REQUEST	

aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project manager: Kelly L	Kelly Lowery		P.O. #:		
lar	d Street, Suite 400		Oxy, USA, Inc		
City: Midland	State:	: TX Zip: 79701	Attn: Wade Dittrich	>	
Phone #: 214-733-3165			Address:	30	
Project #: 03B1417160	Proje	Project Owner:	City:	-	
me:	DR PI Federal Unit 18 7 IPP #022H	022H	State: Zip:	51	
ž	Lea County, NM		Phone #	1	
)/SK		Fax #:	PC	
			ESERV	8	
4		IERS /ATER ATER		Xq	
1244153	(fe	(G)RAB O # CONTA GROUND WASTEN	SOIL OIL SLUDGE OTHER : ACID/BAS ICE / COO OTHER :	TIME	
121 - FS2	0	_	V V 7-11-24	933 -	
SAL	12 1	D L	1 1 1	1 1 926	
2	23			450	
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29 6	26			444	
2	27			946	
28 PS	28			948	
an rs	29	14	V V V	att A A A A	
PLEASE WOTE: Lability and Damages Cardnal's lability and client's exclusive remedy for any claim arraing whether based in contract or fort, sha analyses. All claims including those for incidencial and any other cause whatsoers shall be deemed waved unless made in writing and received to service. In on work that Cardnal be lable for incidencial or consequencial damages, including without limitation, business interruptions, loss of use.	Cardnal's lability and client's exclusive remedy for any claim epigence and any other cause whatsoever shall be deemed to for incidental or consequential damages, including without to for incidental or consequential damages.	remedy for any claim arising whether based in control cover shall be deemed waived unless made in writing ages, including without imitation, business interruption	If be limited to the amount by Cardinal within 30 days or loss of profits incurred	 by the client for the paid by the client for the applicable after completion of the applicable by client, its subsidiaries, 	
affiliates or successors arising out of or related to the pe	ited to the performance of services	hereunder by Cardinal, regardless of whe	rdinal regardless of whether such claim is based upon any of the above stated Received Bv:	Verbal Result: Ves ONO	Add'l Phone #:
Kelinquisned by:	Time	-	Avinand	emailed. Ple	vide Email address:
K- Shimado		Inter Sag Diver Bur	Annunan	klowery@ensolum.com REMARKS:	
Kellinguished by.	Time:				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed		Sample Condition CHECKED BY: Cool Intact Unitials)	Turnaround Time: Standard	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C



ARDINA

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

aboratories 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received by OCD: 12/2/2024 1:11:53 PM

Company Name: E	Ensolum, LLC	FAX (3/3) 333-24/6	10	BILL TO		ANALYSIS REQUEST
Project Manager:	Kelly Lowery		7	P.O. #:		
Address: 601 N Ma	Address: 601 N Marienfeld Street, Suite 400	e 400		Oxy, USA, Inc		
City: Midland		State: TX	Zip: 79701	Attn: Wade Dittrich		
	214-733-3165	Fax #:		Address:		
Project #: 03B1417160	17160	Project Owner:		City:	_	
Project Name: DF	DR PI Federal Unit 18 7 IPP #022H	7 IPP #022H	60	State: Zip:	-1	
Project Location:	Lea County, NM		-	Phone #	_	
Sampler Name:	NKD/SK			Fax #:	ò	
FOR LAB USE ONLY			MATRIX	PRESERV. SAMPLING	0	
Lab I.D.	Sample I.D.	Depth (feet)	G)RAB OR (C)OMP. CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE	ACID/BASE: CE / COOL DTHER :	BTEX 8 TPH Chlorid	
K.	¥7550(5.0	- ~	<	1021 VVV	
3	5502	7	7 7	1	140 1 1 1	
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n Sr	1204				74.91	
with	9056				1128	
38	23 55				1129 11	
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PLEASE MOTE: Liability and Damages. Cardinal's lia nnalyses. All claims including those for negligence an envice. In no event shall Cardinal be liable for incider	mages. Cardinal's liability and cliv ose for negligence and any other i al be liable for incidental or conse al be contend to the participants	nt's exclusive remedy for any claim ause whatsoever shall be deemed quental damages, including without of services becaused by Continue of services becaused by Continue of the continue becaused by Continue of the con	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remoty from y claim raining whithe goldead in contract or tort shall be inmed to the amount paid By the scient for the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed wated unless made in witing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be labele for incidential or completion data shadoever shall be deemed wated unless materingtions, loss of use, or loss of protein forumed by client. Its subaldiaries, and the applicable for incidential or completion of shadoever shall be deemed wated unless interruptions, loss of use, or loss of protein the started vasions at a subaldiaries.	set or fort, shall be imited to the amount paix and received by Cardinal within 30 days after s, loss of use, or loss of profits incurred by o in is beaud upon any of the above stated ray	ter completion of the applicable client, its subsidiaries, casons or otherwise	
Relinquished By:	ed By:	Pate I A	H-24 Received By:	MAN	Verbal Result: Yes No All Results are emailed. Please pro klowery@ensolum.com	□ No Add'I Phone #: Please provide Email address:
Palinquichad Rv.	1 Inv Cr	Date:	Received By:	of a d	REMARKS:	
veninquisited by.			T Sample Condition		Turnaround Time: Standard Rush	Bacteria (only) Sample Condition

Released to Imaging: 3/11/2025 1:51:18 PM



August 28, 2024

KELLY LOWERY ENSOLUM, LLC 705 W WADLEY AVE.

MIDLAND, TX 79705

RE: DR PI FEDERAL UNIT 18 7 IPP #022H

Enclosed are the results of analyses for samples received by the laboratory on 08/22/24 16:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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 KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	DR PI FEDERAL UNIT 18 7 IPP #022H	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Alyssa Parras
Project Location:	OXY LEA COUNTY, NM		

Sample ID: SW 01 1' (H245129-01)

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	08/23/2024	ND	2.18	109	2.00	0.878	
Toluene*	<0.050	0.050	08/23/2024	ND	2.14	107	2.00	2.79	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.25	113	2.00	4.30	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.91	115	6.00	4.53	
Total BTEX	<0.300	0.300	08/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/26/2024	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	08/23/2024	ND	203	102	200	0.287	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	199	99.3	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	84.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.1	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	DR PI FEDERAL UNIT 18 7 IPP #022H	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Alyssa Parras
Project Location:	OXY LEA COUNTY, NM		

Sample ID: SW 02 1' (H245129-02)

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	08/23/2024	ND	2.18	109	2.00	0.878	
Toluene*	<0.050	0.050	08/23/2024	ND	2.14	107	2.00	2.79	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.25	113	2.00	4.30	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.91	115	6.00	4.53	
Total BTEX	<0.300	0.300	08/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/26/2024	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	08/23/2024	ND	203	102	200	0.287	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	199	99.3	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	79.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.1	% 49.1-14	8						

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	DR PI FEDERAL UNIT 18 7 IPP #022H	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Alyssa Parras
Project Location:	OXY LEA COUNTY, NM		

Sample ID: SW 03 1' (H245129-03)

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	08/23/2024	ND	2.18	109	2.00	0.878	
Toluene*	<0.050	0.050	08/23/2024	ND	2.14	107	2.00	2.79	
Ethylbenzene*	<0.050	0.050	08/23/2024	ND	2.25	113	2.00	4.30	
Total Xylenes*	<0.150	0.150	08/23/2024	ND	6.91	115	6.00	4.53	
Total BTEX	<0.300	0.300	08/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/26/2024	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	08/23/2024	ND	203	102	200	0.287	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	199	99.3	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	79.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.1	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	DR PI FEDERAL UNIT 18 7 IPP #022H	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Alyssa Parras
Project Location:	OXY LEA COUNTY, NM		

Sample ID: SW 04 1' (H245129-04)

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	08/24/2024	ND	2.10	105	2.00	2.68	
Toluene*	<0.050	0.050	08/24/2024	ND	1.99	99.7	2.00	2.15	
Ethylbenzene*	<0.050	0.050	08/24/2024	ND	2.03	102	2.00	2.05	QM-07
Total Xylenes*	<0.150	0.150	08/24/2024	ND	6.02	100	6.00	1.88	QM-07
Total BTEX	<0.300	0.300	08/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/26/2024	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	08/23/2024	ND	203	102	200	0.287	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	199	99.3	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	81.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.4	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	DR PI FEDERAL UNIT 18 7 IPP #022H	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Alyssa Parras
Project Location:	OXY LEA COUNTY, NM		

Sample ID: SW 05 1' (H245129-05)

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	08/24/2024	ND	2.10	105	2.00	2.68	
Toluene*	<0.050	0.050	08/24/2024	ND	1.99	99.7	2.00	2.15	
Ethylbenzene*	<0.050	0.050	08/24/2024	ND	2.03	102	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/24/2024	ND	6.02	100	6.00	1.88	
Total BTEX	<0.300	0.300	08/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/26/2024	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	08/23/2024	ND	203	102	200	0.287	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	199	99.3	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	79.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	DR PI FEDERAL UNIT 18 7 IPP #022H	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Alyssa Parras
Project Location:	OXY LEA COUNTY, NM		

Sample ID: SW 06 1.5' (H245129-06)

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	08/24/2024	ND	2.10	105	2.00	2.68	
Toluene*	<0.050	0.050	08/24/2024	ND	1.99	99.7	2.00	2.15	
Ethylbenzene*	<0.050	0.050	08/24/2024	ND	2.03	102	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/24/2024	ND	6.02	100	6.00	1.88	
Total BTEX	<0.300	0.300	08/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.7 % 71.5-13		4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/26/2024	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	08/23/2024	ND	203	102	200	0.287	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	199	99.3	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	80.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.6	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	DR PI FEDERAL UNIT 18 7 IPP #022H	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Alyssa Parras
Project Location:	OXY LEA COUNTY, NM		

Sample ID: SW 07 1' (H245129-07)

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	08/24/2024	ND	2.10	105	2.00	2.68	
Toluene*	<0.050	0.050	08/24/2024	ND	1.99	99.7	2.00	2.15	
Ethylbenzene*	<0.050	0.050	08/24/2024	ND	2.03	102	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/24/2024	ND	6.02	100	6.00	1.88	
Total BTEX	<0.300	0.300	08/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/26/2024	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	08/23/2024	ND	203	102	200	0.287	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	199	99.3	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	89.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	DR PI FEDERAL UNIT 18 7 IPP #022H	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Alyssa Parras
Project Location:	OXY LEA COUNTY, NM		

Sample ID: SW 08 1' (H245129-08)

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	08/24/2024	ND	2.10	105	2.00	2.68	
Toluene*	<0.050	0.050	08/24/2024	ND	1.99	99.7	2.00	2.15	
Ethylbenzene*	<0.050	0.050	08/24/2024	ND	2.03	102	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/24/2024	ND	6.02	100	6.00	1.88	
Total BTEX	<0.300	0.300	08/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/26/2024	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	08/23/2024	ND	203	102	200	0.287	
DRO >C10-C28*	19.4	10.0	08/23/2024	ND	199	99.3	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	76.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.2	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	DR PI FEDERAL UNIT 18 7 IPP #022H	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Alyssa Parras
Project Location:	OXY LEA COUNTY, NM		

Sample ID: SW 09 1' (H245129-09)

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	08/24/2024	ND	2.10	105	2.00	2.68	
Toluene*	<0.050	0.050	08/24/2024	ND	1.99	99.7	2.00	2.15	
Ethylbenzene*	<0.050	0.050	08/24/2024	ND	2.03	102	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/24/2024	ND	6.02	100	6.00	1.88	
Total BTEX	<0.300	0.300	08/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/26/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	203	102	200	0.287	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	199	99.3	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	86.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.6	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	DR PI FEDERAL UNIT 18 7 IPP #022H	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Alyssa Parras
Project Location:	OXY LEA COUNTY, NM		

Sample ID: SW 10 1' (H245129-10)

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	08/24/2024	ND	2.10	105	2.00	2.68	
Toluene*	<0.050	0.050	08/24/2024	ND	1.99	99.7	2.00	2.15	
Ethylbenzene*	<0.050	0.050	08/24/2024	ND	2.03	102	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/24/2024	ND	6.02	100	6.00	1.88	
Total BTEX	<0.300	0.300	08/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/26/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	203	102	200	0.287	
DRO >C10-C28*	12.6	10.0	08/23/2024	ND	199	99.3	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	83.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



	ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:		
Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	DR PI FEDERAL UNIT 18 7 IPP #022H	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Alyssa Parras
Project Location:	OXY LEA COUNTY, NM		

Sample ID: SW 11 1' (H245129-11)

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	08/24/2024	ND	2.10	105	2.00	2.68	
Toluene*	<0.050	0.050	08/24/2024	ND	1.99	99.7	2.00	2.15	
Ethylbenzene*	<0.050	0.050	08/24/2024	ND	2.03	102	2.00	2.05	
Total Xylenes*	<0.150	0.150	08/24/2024	ND	6.02	100	6.00	1.88	
Total BTEX	<0.300	0.300	08/24/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/26/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	203	102	200	0.287	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	199	99.3	200	4.40	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	81.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.6	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

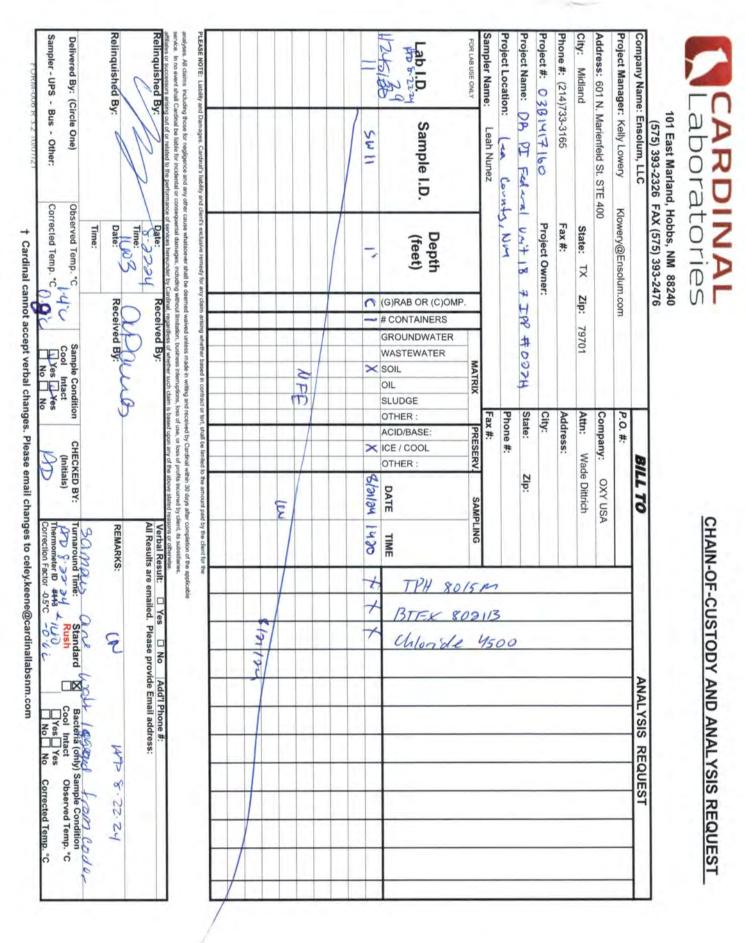
Celey D. Keene, Lab Director/Quality Manager

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Delivered By: (Circle One)	Kelinduished By:	analyses. All claims including those for negligance and any other service. In no event shall Cardinal be liable for incidental or conse affiliates or successors arising out of or related to the performance affiliates or successors arising out of or related to the performance affiliates or successors arising out of or related to the performance and the second	PLEASE NOTE: Liability and Dan	2	000	-	6	in	c	w	2		Lab I.D.	EDDIADISE ALIC	Sampler Name:	Project Location:	Project #: 630	Phone #: (214)733-3165	City: Midland	Address: 601 N. N	Project Manager: Kelly Lowery	101 East Maria (575) 393-23 Company Name: Ensolum, LLC	
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Date: Time: Observed Temp. *C.	Date: 8 22.24 Time: 1403	r cause whatsoever shall be d sequental damages, including v ze of services hereunder by Ca	Inent's exclusive remedy for an	P	11	11	1.5		11	N	11	1	Depth (feet)		IN CUT	-	Project Owner:	Fax #:	State: TX	400	Klowery@Ensolum.com	11 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 nsolum, LLC	ratories
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Page 93 of 116.

Received by OCD: 12/2/2024 1:11:53 PM



Page 94 of 116



August 28, 2024

KELLY LOWERY ENSOLUM, LLC 705 W WADLEY AVE.

MIDLAND, TX 79705

RE: DR PI FEDERAL UNIT 18 7 IPP #022H

Enclosed are the results of analyses for samples received by the laboratory on 08/22/24 16:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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 KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	DR PI FEDERAL UNIT 18 7 IPP #022H	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Alyssa Parras
Project Location:	OXY LEA COUNTY, NM		

Sample ID: FS - 05 1' (H245132-01)

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	08/23/2024	ND	217	108	200	3.91	
DRO >C10-C28*	88.6	10.0	08/23/2024	ND	206	103	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	85.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

Sample ID: FS - 09 1' (H245132-02)

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	08/23/2024	ND	217	108	200	3.91	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	77.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	<i>49.1-14</i>	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	DR PI FEDERAL UNIT 18 7 IPP #022H	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Alyssa Parras
Project Location:	OXY LEA COUNTY, NM		

Sample ID: FS - 10 1' (H245132-03)

TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	217	108	200	3.91	
DRO >C10-C28*	548	10.0	08/23/2024	ND	206	103	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	86.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

Sample ID: FS - 11 1' (H245132-04)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.6	10.0	08/23/2024	ND	217	108	200	3.91	
DRO >C10-C28*	924	10.0	08/23/2024	ND	206	103	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	89.3 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 %	6 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	DR PI FEDERAL UNIT 18 7 IPP #022H	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Alyssa Parras
Project Location:	OXY LEA COUNTY, NM		

Sample ID: FS - 13 1.5' (H245132-05)

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	08/23/2024	ND	217	108	200	3.91	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	83.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

Sample ID: FS - 16 1' (H245132-06)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	217	108	200	3.91	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	85.0 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 %	6 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	DR PI FEDERAL UNIT 18 7 IPP #022H	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Alyssa Parras
Project Location:	OXY LEA COUNTY, NM		

Sample ID: FS - 19 1' (H245132-07)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	217	108	200	3.91	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	80.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

Sample ID: FS - 20 1' (H245132-08)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	217	108	200	3.91	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	75.8 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.9%	6 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	DR PI FEDERAL UNIT 18 7 IPP #022H	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Alyssa Parras
Project Location:	OXY LEA COUNTY, NM		

Sample ID: FS - 25 1' (H245132-09)

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	08/23/2024	ND	217	108	200	3.91	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	74.4 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.5 9	% 49.1-14	8						

Sample ID: FS - 26 1' (H245132-10)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2024	ND	217	108	200	3.91	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	79.1 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 %	49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC KELLY LOWERY 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received:	08/22/2024	Sampling Date:	08/21/2024
Reported:	08/28/2024	Sampling Type:	Soil
Project Name:	DR PI FEDERAL UNIT 18 7 IPP #022H	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Alyssa Parras
Project Location:	OXY LEA COUNTY, NM		

Sample ID: FS - 27 1' (H245132-11)

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	08/23/2024	ND	217	108	200	3.91	
DRO >C10-C28*	<10.0	10.0	08/23/2024	ND	206	103	200	4.22	
EXT DRO >C28-C36	<10.0	10.0	08/23/2024	ND					
Surrogate: 1-Chlorooctane	77.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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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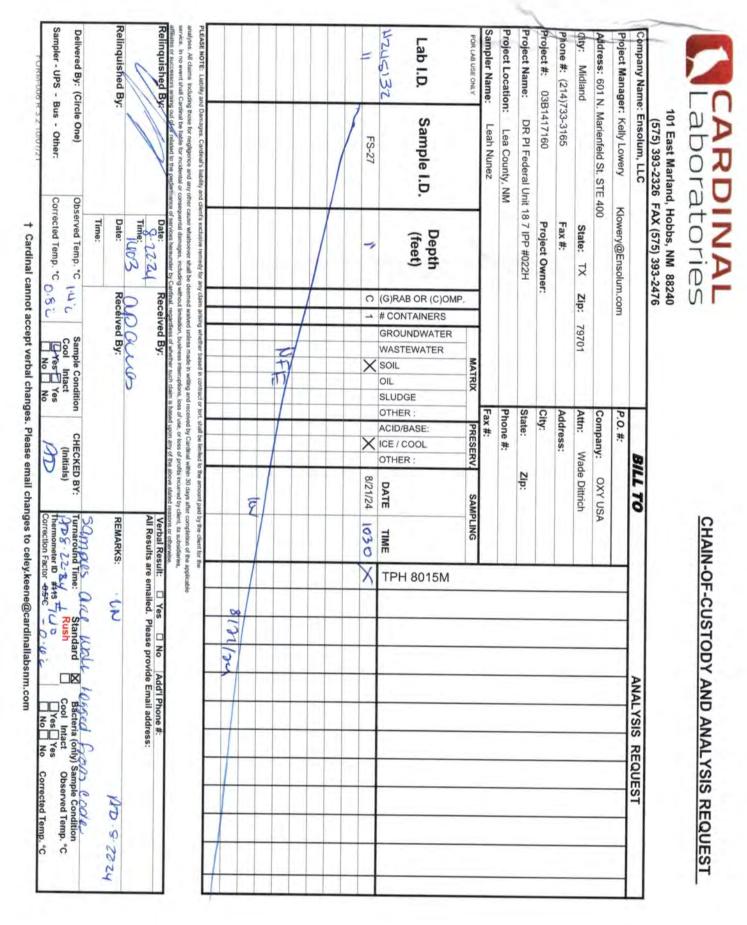
Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 12/2/2024 1:11:53 PM

(575) 393-2 Company Name: Ensolum, LL Project Manager: Kelly Lowery Address: 601 N. Marienfeld St. City: Midland Phone #: (214)733-3165 Project #: 03B1417160 Project Name: DR PI Feder Project Location: Lea Count Sampler Name: Leah Nunea FOR LAB USE ONLY FOR LAB USE ONLY Address: Sample I		(575) 393-2326 FAX (575) 393-2476 insolum, LLC Kelly Lowery Klowery@Ensolum.com arienfeld St. STE 400 State: TX Zip: 13165 Fax #: 17160 Project Owner: DR PI Federal Unit 18 7 IPP #022H Leah Nunez Leah Nunez Depth (feet) (G) RA (C) OMP.	# CONTAINERS 3 GROUNDWATER 39701	SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : ACID/BASE: City: Fax #: ICE / COOL	ACID/BASE: PRE#: One te: Y: dress # PRE#:		OTHER : Viade Ditt	OTHER: View View D D D D D D D D D D D D D D D D D D D	OTHER : Zip: Zip: DATE	BILL TO Wade Dittrich Zip: Zip: Time
Lab I.D.	Sample I.D.	Depth (feet)	# CONTAINERS GROUNDWATER WASTEWATER	SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :	e reterre	D	DATE	DATE	DATE
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v.	FS-13	1.51	-	×	×		-			
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PLEASE NOTE: Liability and Dam	FS-26 Damages. Cardinal's liability and clie	d client's exclusive remedy for a	C 1	sed in contract or tort, sh	all be limited to	12	8	103 d by the clies	103 d by the clies	103 d by the clies
analyses. All claims including thos service. In no event shall Cardinal affiliates or successors arising out,	those for r dinal be lial out of n	cause whatsoever quental damages, of services hereur	med walved unless i hout limitation, busin inal, regardless of w	is made in writing and received siness interruptions, loss of use whether such claim is based u	wed by Cardinal w use, or loss of pri ed upon any of the	2 2 2 2	within 30 days after c within 30 days after c vrofits incurred by clie he above stated reast	versore or increase or some or animeter an anovan pass by the clears for the made in writing and received by Cardinal within 30 days after completion of the a easi interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, hefter such claim is based upon any of the above stated reasons or otherwise.	u we announ yaru uy we creat tot the 81th 30 days after completion of the applicable offits incurred by client, its subsidiaries, above stalled reasons or otherwise	u are announn para by the completion of the applicable fiftha 30 days after completion of the applicable office incurred by client, its subsidiaries, above staled reasonce or otherwise.
Relinquished By:	X	Date: 8-2224 Time: 1003 Date:	Received By:	car				All Results a	Verbal Result: Yerbal Result: Yerbal Results are emailed REMARKS:	3
Delivered By: (Circle One)		Observed Temp. *C 1.4.6		Sample Condition Cool Intact	CHECKED BY:		10sped fr		n'n smilling	

Received by OCD: 12/2/2024 1:11:53 PM



Page 104 of 116



September 19, 2024

BEAUX JENNINGS ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: LEA LAND CALICHE PIT

Enclosed are the results of analyses for samples received by the laboratory on 09/16/24 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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:	09/16/2024	Sampling Date:	09/13/2024
Reported:	09/19/2024	Sampling Type:	Soil
Project Name:	LEA LAND CALICHE PIT	Sampling Condition:	Cool & Intact
Project Number:	03B1417160	Sample Received By:	Tamara Oldaker
Project Location:	OXY		

Sample ID: LEA LAND CALICHE PIT 0.5' (H245619-01)

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	09/17/2024	ND	2.04	102	2.00	2.40	
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	09/17/2024	ND	416	104	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	09/17/2024	ND	204	102	200	0.238	
DRO >C10-C28*	98.6	10.0	09/17/2024	ND	202	101	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	70.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.3	% 49.1-14	0						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Company Name: Ensolum, LLC		BILL TO	ANALYSIS REQUEST
Project Manager: Beaux Jennings		P.O. #	
Address: 601 N. Marienfeld St. STE 400	400	Company: OXY USA	
-	(Zip: 79701	Attn: Wade Dittrich	
Phone #: (210)219-8858	Email:bjennings@ensolum.com	Address:	
Project #: 03BI417160	Project Owner:	City:	
ame:		State: Zip:	>
1. 1.1		Phone #:	
Sampler Name: Vana Chimodo		Email:	M
Sampler Name: Kaoru Shimada	MATRIX	PRESERV. SAMPLING	51
Lab I.D. Sample I.D.		DGE ER : VBASE: COOL C ER :	TEX 802 TPH 801 Chloride Hold
107 stal Lea hand Calic	- # 	\$ 9-15 X	ID41 X X V
PLEASE NOTE: Lability and Durrugin. Cantinut's lability and client's All claims including those for migligence and any other cause w in no event shall Cartinul be liable for incidential or consequents	PLORE HOTE: Usable and Dumper. Centrar's liability and client's antision reveals to use dam aution variates transfer to constant or text, and its instant to the surroux pairs in the article text and the constant or text, and its instant or text and the constant or text and text and the constant or text and text and text and the constant or text and text	is amount paid by the client for the antilysets, al within 30 days after completion of the applicable service of profile incurred by client, its subsidiaries,	
Relinquished By: Relinquished By: Kapy Shimada	and a large hereafter by Carloss, against of whethe each dense based of the Carloss, against of the standard of the Carlos of the standard of	X	Verbal Result: □ Yes ∞ No Add'l Phone #: Al/ Results are emailed. Please provide Email address: Benpings@ensolum.com, klowery@ensolum.com
Relinquished By:	Date: Received By: Time:	ncm	NGRIMANAA, T SIYAAJIYA GANAYAYA AA
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. "C 4:3 Sample Condition Corrected Temp. "C 5:7 Cool Lotect The Tem Temp	CHECKED BY: (Initials)	Transvourd Time Standard (2) Backing (only) Standard Conditions Rush Code Material Colouring Times "C Thermometer ID error #1/4/4 Connection Fector #8400

Page 4 of 4

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

Page 109 of 116

QUESTIONS

Action 407619

QUESTIO	NS
Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	407619
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

nAPP2407545309
NAPP2407545309 DR PI FEDERAL UNIT 18 7 IPP #022H @ 30-025-48157
Produced Water Release
Remediation Closure Report Received
[30-025-48157] DR PI UNIT #022H
-

Location of Release Source

Please	answer	all the	questions i	n this	group.

Site Name	DR PI FEDERAL UNIT 18 7 IPP #022H
Date Release Discovered	03/05/2024
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Human Error Frac Tank Produced Water Released: 20 BBL Recovered: 10 BBL Lost: 10 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	No	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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

QUESTIONS, Page 2

Page 110 of 116

Action 407619

QUESTIONS (continued)		
Operator: OGRID:		
OXY USA INC	16696	
P.O. Box 4294	Action Number:	
Houston, TX 772104294	407619	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported) No, according	to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC No		
Reasons why this would be considered a submission for a notification of a major release Unavailable.		
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.		

Initial Response		
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.		
The source of the release has been stopped True		
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 12/02/2024	

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	407619
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release an	nd the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMA		
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	7520	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	6493	
GRO+DRO (EPA SW-846 Method 8015M)	6493	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	03/05/2024	
On what date will (or did) the final sampling or liner inspection occur	08/21/2024	
On what date will (or was) the remediation complete(d)	08/21/2024	
What is the estimated surface area (in square feet) that will be reclaimed	6231	
What is the estimated volume (in cubic yards) that will be reclaimed	160	
What is the estimated surface area (in square feet) that will be remediated	6231	
What is the estimated volume (in cubic yards) that will be remediated	160	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Page 111 of 116

QUESTIONS, Page 3

Action 407619

General Information Phone: (505) 629-6116

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

	QUESTIONS, Pa	ge 4

Action 407619

Page 112 of 116

Action 40

QUESTIONS (continued)		
Operator: OGRID:		
OXY USA INC	16696	
P.O. Box 4294	Action Number:	
Houston, TX 772104294	407619	
	Action Type:	
	IC 1411 Remediation Closure Request C 141 (C 141 v Closure)	

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:	
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ef which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a	nowledge and understand that pursuant to OCD rules and regulations all operators are required uses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com	

Date: 12/02/2024 The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Email: wade_dittrich@oxy.com

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 5

Action 407619

Page 113 of 116

QUESTIONS (continued)		
Operator:	OGRID:	
OXY USA INC	16696	
P.O. Box 4294	Action Number:	
Houston, TX 772104294	407619	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QL	JES	TIC	NS

Deferral Requests Only		
only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.		
Requesting a deferral of the remediation closure due date with the approval of this submission	Νο	

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

QUESTIONS, Page 6

Action 407619

Page 114 of 116

QUESTIONS (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	407619
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	374542
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/21/2024
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	2400

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	
What was the total surface area (in square feet) remediated	6231	
What was the total volume (cubic yards) remediated	160	
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	
What was the total surface area (in square feet) reclaimed	0	
What was the total volume (in cubic yards) reclaimed	0	
Summarize any additional remediation activities not included by answers (above)	N/A	
	losure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of	
I hereby certify that the information given above is true and complete to the best of my l	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 relea the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report	ses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or ally restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed or gnotification to the OCD when reclamation and re-vegetation are complete.	
	Number of Marchaele Difference	

I hereby agree and sign off to the above statement	Name: Wade Dittrich
	Title: Environmental Coordinator
	Email: wade_dittrich@oxy.com
	Date: 12/02/2024

General Information Phone: (505) 629-6116

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

QUESTIONS, Page 7

Action 407619

Page 115 of 116

.

QUESTIONS (continued)	
Operator: OXY USA INC	OGRID: 16696
P.O. Box 4294 Houston, TX 772104294	Action Number: 407619
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
OUESTIONS	

QUESTIONS

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

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

Page 116 of 116

CONDITIONS

Action 407619

 CONDITIONS

 Operator:
 OGRID:

 OXY USA INC
 16696

 P.O. Box 4294
 Action Number:

 Houston, TX 772104294
 407619

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

CONDITIONS

Created By		Condition Date
michael.buchanan	None	3/11/2025